



Memorandum

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Elizabeth Franklin, USACE*

From: *Frank Tsang and Scott Kirchner, CDM Smith*

Date: *August 15, 2014*

Subject: *Oversight Summary Report
CPG Oversight of RM 10.9 Removal Action
Lower Passaic River Restoration Project*

On behalf of the United States Environmental Protection Agency (EPA) and the United States Army Corps of Engineers (USACE), Kansas City District, CDM Federal Programs Corporation (CDM Smith) provided oversight of the Cooperating Parties Group (CPG) removal action (RA) field activities associated with the River Mile (RM) 10.9 Study Area.

CDM Smith oversight activities included the observation of dredging and capping activities performed by Great Lakes Dredge & Dock Company (GLDD) and of air, water, and sediment sample collection and processing and air and water quality monitoring performed by CH2M HILL. Ocean Surveys, Inc. (OSI) assisted with bathymetric surveying and surface water sampling activities. All activities were conducted in accordance with the CPG's *River Mile 10.9 Removal Action Final Design Report, Lower Passaic River Study Area*.

Daily oversight reports, including photographs of field activities, are provided in Attachment 1. A copy of all logbook notes is provided in Attachment 2.

Chronology of Activities

<u>Activity</u>	<u>Start</u>	<u>Finish</u>
Mobilization for Dredging	7/28/2013	8/2/2013
Silt Curtain Deployment	8/1/2013	8/2/2013
Dredging	8/3/2013	10/4/2013
Air Monitoring	7/31/2013	11/26/2013
Turbidity Monitoring	8/3/2013, resumed 2/24/2014	5/29/2014
Mobilization for Active Layer Placement	11/7/2013	11/7/2013
Active Layer Placement	Testing 11/9/2013, full-scale 11/15/2013	12/5/2013
Geotextile/Armor Stone Placement	12/11/2013, resumed 2/24/2014	5/6/2014
Habitat Layer Placement	5/8/2014, resumed 5/21/2014	5/29/2014
Demobilization	5/30/2014	5/30/2014

Summary of Weekly Activities

The following is a summary of weekly activities observed during the course of the RA.

July 28 – August 3, 2013. Oversight personnel observed the mobilization of equipment to RM 10.9 and the start of dredging activities. Equipment included two tugboats, one large dump scow, a Hughes 823 dredge barge, a survey boat, two work boats, and a Fuchs excavator with environmental clamshell bucket. GLDD deployed silt curtain around the southern portion of the dredging area. Dredging began on August 3 in the southwestern corner of the RM 10.9 removal area, moving north. Dredge cycle times were observed to be approximately 45 to 60 seconds per bucket and the seal on the environmental dredge bucket was effective in preventing the release of sediment. Dredged material was deposited into the dump scow, stationed adjacent to the main dredging barge.

Air monitoring stations were installed north and south of the dredging area, near the Lyndhurst Fire Department boat launch and the Riverside Park bocce courts, respectively, as well as in the middle, near the United Water pump house. All three stations provided secure space to collect composite samples for dioxins, polychlorinated biphenyls (PCBs), or mercury analysis, and the northern and southern stations were equipped with devices to monitor dust generation, hydrogen sulfide (H₂S), and volatile organic compounds (VOCs) continuously. A floating station was also installed in the river to perform continuous and composite sampling, and a mobile unit was placed near the riverbank each day, adjacent to dredging operations, to monitor dust, H₂S, and VOCs. The air monitoring stations were observed to be operational and 48-hour continuous pre-dredging air sampling was conducted. A weather station was also installed near the northern air monitoring station.

On August 3, the CPG performed composite surface water sampling throughout the day at the four transects. Transect 2 was located a short distance south of the removal area, Transect 3 was located a short distance north of the removal area, and Transects 1 and 4 were located approximately 0.5 mile south and north of the removal area, respectively. Sampling was performed between 10:00 and 16:30 to coincide with active dredging activities, and each transect was visited four times, approximately once every 2 hours. Samples were collected with a peristaltic pump and platinum-cured silicone tubing. Separate lengths of tubing were cut for each transect. A sample was generated for each transect by compositing the aliquots collected throughout the day.

August 4 – August 10, 2013. Dredging was intermittent throughout the week due to malfunctioning of the Bridge Street Bridge motor. Scow movement was limited due to the inability to coordinate regular bridge openings. There was no dredging on August 6 or August 8, and dredging continued on August 9 and 10 without any issues. It was noted during the weekly progress meeting on August 6 that the volumes of water present in the sediment scows when they arrived at the Clean Earth facility for processing were greater than expected.

Surface water transect sampling was performed on August 5 during active dredging, using the same procedure as on August 3. CDM Smith collected a split sample from Buoy 2 on August 5. Sampling was performed again on August 9 using a modified approach in which samples were collected at the eastern bank, middle, and western bank of each transect for composting at one time, rather than throughout the day.

Air monitoring continued throughout the week during active dredging. The northern air monitoring station was moved approximately 40 feet south on August 9 to a location with greater air flow.

August 11 – August 17, 2013. Dredging operations continued uninterrupted through most of the week. Repairs to the Bridge Street Bridge were performed between August 14 and August 16. There was no

dredging on August 16 due to the absence of empty scows. Sediment loss from the environmental bucket was generally limited, but increased near the riverbank due to a greater incidence of rocks and debris, preventing the bucket from sealing shut. OSI was observed performing intermittent surveys of the dredged area to confirm that a 2-foot cut was achieved by the dredge bucket.

On August 16, Clean Earth personnel were observed offloading and processing dredged material at their facility in Kearny, New Jersey. An excavator was observed transferring material from the loaded scow into the size separator to sort out large rocks and debris. Portland cement was added to the material at a ratio of 10 percent by weight for stabilization. The consistency of the stabilized material was satisfactory (i.e., not wet). Dust generation at the facility was not significant. Clean Earth personnel were also observed dewatering the second of the two loaded scows. No issues were noted.

Surface water sampling was completed on August 12 at Transects 1 and 2 and on August 13 at Transects 3 and 4. CDM Smith collected a split sample at Transect 2 on August 12.

Late in the week, air monitoring for contaminants of potential concern (COPCs) was reduced. Previously, samples were collected for analysis of all COPCs (mercury, dioxins, and PCBs) at the northern, southern, middle, and floating monitoring locations on a daily basis. This was reduced to a rotating schedule under which samples were collected for analysis of only one of the three COPCs each day. On August 13, it was noted that the northern air monitoring station was registering elevated levels of H₂S. It was ultimately determined that a nearby sanitary sewer was responsible for the hits; the H₂S meter was moved to the nearby mobile weather station, and there were no further issues.

August 18 – August 24, 2013. Dredging operations continued throughout the week. Work paused on August 21 for repair of silt curtain panels that had come loose, and the following day severe weather prevented work on the river. GLDD finished dredging Area 1, representing approximately the southernmost third of the total dredging area, on August 21, pending the results of a bathymetric survey of the area. The survey was performed between August 22 and August 24, during which time GLDD began dredging in Area 2. Area 2 comprised the areas immediately south and immediately north of the No Dredge Zone. The No Dredge Zone is the area surrounding two 72-inch United Water service mains that run beneath the Passaic River. Because the exact locations of the mains could not be confidently determined, a 30-foot buffer was established on either side and dredging was not performed in this area. Dredging operations returned to Area 1 on August 24 to revisit high spots identified during the bathymetric survey.

Surface water transect sampling was performed on August 20 and August 21, and air monitoring operations continued throughout the week with no issues. Oversight personnel noted faint PCB odors at various points throughout the week; however, PCB levels were not elevated in the perimeter air samples. Elevated turbidity readings were noted in the morning on August 24, prior to the start of dredging. It was discovered that turbidity monitoring Buoy 4 was surrounded by floating debris, which caused the high readings.

During a visit to the Clean Earth facility on August 24, oversight personnel noted significant dust generation. This information was relayed to the CPG, and Clean Earth personnel began to circulate water trucks around the site to provide dust control.

August 25 – August 31, 2013. Dredging continued throughout the week, and was divided between the undercut sections of Area 1, as identified during the bathymetric survey, and Area 2. GLDD completed Area 2 to the southern boundary of the No Dredge Zone.

GLDD reported that there were several locations along the eastern riverbank in Area 1 where rock outcroppings extended above the 2-foot dredge line, preventing dredging to the target depth. Oversight personnel visited the area on August 27 and observed the refusal area. Rock and hard clay were visible, though it was difficult to determine the lateral extent of the hard material.

On August 28, the CPG informed oversight personnel that the landfills in Oklahoma had yet to unload any of the intermodal cars carrying the stabilized sediment due to standing water in the cars. Oversight personnel visited the Clean Earth facility on August 29 and did not observe any water atop the sediment as it was loaded onto trucks.

Surface water transect sampling was performed on August 27 at Transects 1 and 2 and on August 28 at Transects 3 and 4, and CDM Smith collected a split sample from Transect 2 on August 27. Air monitoring operations continued throughout the week with no issues.

September 1 – September 7, 2013. Dredging was suspended for most of the week because the Bridge Street Bridge experienced a mechanical failure on August 31, which prevented the CPG from transporting scows to and from the RM 10.9 removal area. GLDD performed dredging on September 3 in Area 2 and filled the single available scow. With Area 1 complete (pending a resolution regarding the shoreline refusal area), the dredging operation was moved to the northern edge of Area 2, near the Lyndhurst Fire Department boat launch, and GLDD worked southward.

At the end of the week, the issue regarding shoreline refusal in Area 1 remained unresolved, as the CPG had yet to propose a satisfactory means of analytical sampling to support relaxing the 2-foot excavation requirement in the refusal area. Oversight personnel visited the area with the CPG and agreed that there was enough sediment embedded in and around the outcropping to support a sampling effort.

September 8 – September 14, 2013. Oversight personnel demobilized from RM 10.9 temporarily, as the Bridge Street Bridge mechanical failure continued to prevent dredging activity.

September 15 – September 21, 2013. EPA received notification that dredging was set to resume on September 19, and oversight personnel were present to observe operations. Dredging proceeded without delay through the end of the week. Some odors, sheens, and very dark material with a sandy-clayey consistency were observed on September 19, and the CPG was instructed to collect 24-hour PCB air samples in the area of dredging operations.

Full air monitoring operations resumed on September 20. Samples were collected for the full suite of COPC analyses (mercury, dioxins, and PCBs) on September 20 and September 21, after which the CPG resumed the rotated schedule, collecting samples for analysis of one COPC each day. Surface water transect sampling was not performed this week.

September 22 – September 28, 2013. Dredging operations progressed without delay from the Lyndhurst Fire Department boat launch southward to the northern edge of the No Dredge Zone. Dredge cycles were generally 60 to 70 seconds per bucket, and dark, organic material was observed in the dredge spoils. Oversight personnel also noted an increase in intentional decanting of river water from the excavator bucket. According to the CPG, this was in response to the high water content observed in the scows upon their arrival at the Clean Earth facility. The decanted water appeared to be clear and generally free of sediment, and no elevated turbidity measurements were noted. Oversight personnel observed a preliminary survey of the dredged area near the Lyndhurst Fire Department boat launch on September 22.

Air monitoring continued without any issues. On September 24, EPA approved a reduction in COPC monitoring whereby only three samples would be collected from each monitoring station each week – one for each COPC to be analyzed (mercury, dioxins, and PCBs). Surface water transect sampling took place on September 25, and CDM Smith collected a split sample from Transect 2.

On September 27 and 28, the CPG performed an investigation of the shoreline refusal area in Area 1. Seven sediment samples were collected for laboratory analysis to determine the chemical composition of the residual material. Samples were collected using a push-core, and at least 6 inches of sediment were collected at each location. The following day, the CPG visited the area at low tide and marked out locations to probe for sediment depths. Oversight personnel observed the CPG using a 0.5-inch diameter threaded steel rod to determine the depth to rock (or other impenetrable material). Less penetration (0 to 8 inches) was recorded near the shore, whereas farther into the channel the rod was able to penetrate up to 25 inches in some areas.

September 29 – October 5, 2013. Dredging continued through most of the week. Having completed dredging to the northern edge of the No Dredge Zone the prior week, GLDD returned to the Lyndhurst Fire Department boat launch and began dredging northward into the narrow “finger” portion of the RM 10.9 removal area (Area 3). The bathymetric survey of the previous weeks’ dredging was completed concurrently, and GLDD spent part of the week re-dredging high spots identified during the survey.

Rocky material was encountered at several locations in the “finger” area, as observed in instances where the excavator bucket was visibly refused. Oversight personnel noted that many passes of the dredge bucket were mostly water, as there was little available sediment. In response, the CPG performed sediment probing on September 30. Sediment depths varied over the 61 locations probed, from no available sediment to more than 24 inches of sediment. GLDD made a second attempt to dredge the portions of the “finger” with available sediment on October 3, with minimal recovery observed. Oversight personnel also observed the collection of sediment samples from this area.

Work was delayed on October 2 when a chain from the silt curtain became caught in the engine of one of the tugboats. Divers mobilized to the site that evening to repair the engine. Oversight personnel were informed the following morning that the work took longer than expected because the dive team arrived on site without the appropriate personal protective equipment (PPE) for the contaminant levels in the river.

On October 4, GLDD revisited the shoreline refusal section of Area 1 to gather available sediment using the excavator bucket. EPA had determined that there was enough sediment to justify a second attempt at removal after the area was probed for sediment depths on September 28. Minimal recovery was achieved during the second attempt, and GLDD demobilized dredging equipment from the site that afternoon, as dredging was complete.

Air monitoring continued throughout the week without any issues. Surface water transect sampling took place on October 1, and CDM Smith collected a split sample from Transect 2.

October 6 – October 12, 2013. Oversight personnel observed the collection of post-dredging sediment samples from the RM 10.9 removal area on October 9. A Ponar grab sampler was used to collect samples from 20 locations, including several locations in the “finger” area beyond the northern extent of the area dredged by GLDD. Location 18 (Cut 10 #4) was moved approximately 40 feet west of its planned location because rocky material prevented the collection of sufficient sample volume. CDM Smith collected split samples from Cut 1T #1, Cut 3T #1, Cut 9 #2, and Cut 10 #2.

Air and surface water quality monitoring were suspended at the end of dredging operations. Oversight personnel did not visit the site again until November 7, 2013.

November 3 – November 9, 2013. GLDD mobilized equipment for placement of the active layer (sand and AquaGate mixture) on November 7. Equipment included two barges, the Fuchs excavator used during dredging (fitted with a conventional excavator bucket rather than an environmental clamshell bucket), a CAT long-stick excavator, six super sacs of AquaGate, a mixing hopper, conveyors, the Telebelt® unit, and two low-profile scows filled with sand. Capping equipment was mobilized to the southern edge of the capping area and oversight personnel observed the placement of the active layer over a test area on November 9.

November 10 – November 16, 2013. Full-scale continuous capping operations began on November 15. Work was delayed early in the week due to malfunctioning of the on-barge generator used to power the sand hopper. Attempts to repair the original generator were unsuccessful and a replacement was delivered to the site on November 15.

Once the generator was replaced, operations continued with few delays. Sand and AquaGate were applied in radial passes, and they appeared sufficiently mixed, both coming off the Telebelt® and on the river bottom at low tide. GLDD placed three lifts over each location. Some plumes of suspended solids were observed; however, they dissipated not far from the placement location.

Air monitoring was reduced to two mobile devices situated approximately 200 feet apart, in close proximity to the area of active layer placement. Both devices monitored for particulates and one device monitored for H₂S.

November 17 – November 23, 2013. Placement of the active layer continued throughout the week, and GLDD advanced to the southern edge of the No Dredge Zone. The sand and AquaGate appeared well-mixed coming off the Telebelt® and no issues were noted by oversight personnel.

On November 19, oversight personnel observed a damaged conduit of unknown origin or purpose protruding from the No Dredge Zone at low tide. It was determined to be an abandoned utility cable and it was removed by the CPG late on November 21.

Throughout active layer placement, GLDD collected cores of the sand/AquaGate mixture using a 4-inch Lexan™ tube. Samples were collected by hand-driving the tube into an area where the sand/AquaGate cap had recently been placed, then pulling the tube up and placing a cap on the bottom (to prevent sediment loss) while the bottom was still below the water line. The sampling crew would then cut the tube just above the top of the sediment sample, cap it, and transport it back to the CPG field office. At the field office, the samples were visually inspected to determine the active layer thickness, and some samples were shipped to the laboratory for analysis.

Oversight personnel noted a health and safety issue on November 18, when a deckhand was observed leaning over the edge of the hopper while a super sac of AquaGate was suspended overhead. The observation was reported to the CPG and no further issues were noted.

Air monitoring for particulates and H₂S continued throughout the week, and surface water transect sampling was performed at Transects 2 and 3 only on November 20. CDM Smith did not collect a split sample.

November 24 – November 30, 2013. Placement of the active layer continued throughout the week, and GLDD advanced from the No Dredge Zone northward beyond the Lyndhurst Fire Department boat launch. The sand and AquaGate appeared well-mixed coming off the Telebelt® and no issues were noted by oversight personnel. The CPG noted on November 26 that the percentage of AquaGate in the active layer mixture was slightly increased to be on the conservative side of the 30 percent requirement, since there was extra AquaGate available for use and GLDD was approaching the area with the highest levels of contamination.

Morning temperatures were as low as 30 degrees Fahrenheit on multiple days, causing delays in the morning as equipment took time to heat up. There were also some shortened work days due to the limited availability of AquaGate.

Surface water sampling was performed at Transects 2 and 3 on November 26, and CDM Smith collected a split sample from Transect 2. It was also noted that the monitoring buoys at Transects 2 and 3 had inadvertently been swapped when they were redeployed at the beginning of the capping operations. The CPG was notified and the issue was quickly rectified.

GLDD continued to collect 4-inch cores from the active layer on a regular basis. Cores were observed by oversight personnel at the field office prior to shipment to the laboratory. All cores were composed of homogeneous dark material. Beginning on November 30, air monitoring for particulates and H₂S was suspended per EPA approval.

December 1 – December 7, 2013. GLDD completed placement of the active layer on December 5. There was no production on December 3 or December 4 because GLDD exhausted their supply of sand and AquaGate and had to coordinate upriver movement of additional materials.

Oversight personnel observed that, after active layer placement was completed, GLDD had approximately 35 bags of AquaGate remaining. GLDD relocated to Station 12+00 (located approximately in line with the Riverside Park pavilion and picnic area) and installed the extra material in 1-inch lifts. Sand was not mixed in with the AquaGate.

Surface water transect sampling was performed at Transects 2 and 3 only on December 5. CDM Smith did not collect a split sample. GLDD collected 4-inch cores from the active layer on both days of capping operations, December 2 and December 5. Cores were observed by oversight personnel at the field office prior to shipment to the laboratory. All cores were composed of generally homogeneous dark material, with some evidence of gradation between the sand and the AquaGate.

December 8 – December 14, 2013. Oversight personnel observed the mobilization of equipment for the installation of geotextile fabric and the protective armor stone layer. Two barges were deployed to RM 10.9 on December 11, carrying Type A armor stone and several rolls of geotextile fabric. It was noted that the armor stone was generally 12 inches or larger, but not well-graded, with some smaller stones and coarse material mixed in. A frame was installed on the bucket of the CAT long-stick excavator to suspend the geotextile fabric roll, and the Fuchs excavator was on site to load armor stone.

The first attempt at geotextile installation was performed on December 11. The barges were deployed very close to shore at high tide, and the CAT long-stick excavator lowered the fabric roll and frame to just above the water line. Three deckhands stood on the shoreline to hold the free end of the fabric. The barges were then moved away from shore, toward the river channel, causing the fabric to unfurl from the roll. Oversight personnel noted that the wind lifted the fabric like a sail, causing more fabric to unfurl from the roll than was intended. Once the barges were approximately 30 feet offshore, the Fuchs

excavator began placing armor stone on the fabric. The stone pinned the fabric to the river bottom; however, the fabric did not lie flat and did not extend straight from the shoreline into the river channel, but rather in an “S” shape. These observations were confirmed the following day at low tide. The attempt was deemed unsuccessful.

The second attempt at geotextile installation, on December 12, was similarly unsuccessful. GLDD modified the installation method, with two deckhands attempting to pull the geotextile fabric from the roll to the shoreline by hand using a rope tied to each corner of the fabric. This method was quickly abandoned as the fabric would not unroll, and GLDD reverted to the previous day’s method with similar results. GLDD suspended work for a day in order to refine the installation approach.

A third attempt on December 14 was slightly more successful due to improvements made the previous day. These included welding an arrester bar over the fabric roll to keep it from unfurling too much and installing a winch system to manage the movement of the barge in the water. GLDD installed one geotextile fabric panel and oversight personnel noted that, though slow, the process was executed with greater precision and with less bunching of the geotextile. However, it was later conveyed by GLDD that they were unable to install the panel in the specified location.

December 15 – December 21, 2013. GLDD suspended work again on December 16 in order to identify a better means of geotextile panel installation. On December 17, GLDD installed steel rebar on the geotextile panel prior to installation in order to combat tidal effects, which were causing the fabric to wrinkle and bunch in the water. Oversight personnel noted that the rebar was useful in maintaining the shape of the geotextile fabric, but it did not reduce the difficulty of manipulating the fabric once it was submerged. As a result, GLDD struggled to place the fabric panel in the right location. This method was abandoned.

On December 18, GLDD attempted to install a geotextile panel that was bound to a more rigid composite grid designed to resist bunching. The attempt was unsuccessful due to the same issues encountered previously. This was the last attempt at geotextile installation until February 26, 2014.

On December 19, oversight personnel oversaw the removal of geotextile that had been unsuccessfully installed. Removal was performed using the Fuchs excavator to pull on portions of the geotextile floating on or near the water surface. The accompanying armor stone was not removed at this time. A significant volume of armor stone was observed atop the active layer at low tide; however, there was no evidence of damage to the active layer.

December 22, 2013 – February 22, 2014. Oversight personnel demobilized from RM 10.9. Accumulation of ice and snow prevented work in the river, and GLDD required time to formulate a method for successful installation of the geotextile fabric layer.

February 23 – March 1, 2014. Oversight activities resumed on February 25. GLDD mobilized to the northern edge of the RM 10.9 capping area with an apparatus referred to as the “sinking bar assembly”, which they constructed to assist in placing the geotextile panels. The sinking bar assembly was designed to allow underwater deployment of the geotextile fabric with greater precision and control. It consisted of a horizontal bar attached to the front of the geotextile deployment barge (the Poseidon barge) that could be lowered to hold the geotextile fabric underwater at the river bottom, a stand from which to unroll the fabric, and a brake to control the release of fabric from the roll. The Poseidon barge was installed on one side of the main barge with a winch assembly to control movement to and from the shoreline. The turbidity monitoring buoys were recalibrated and redeployed on February 25.

Oversight personnel observed the installation of the northernmost geotextile panel (40-N) on February 26. The panel naming scheme was based on the approximate number of panels north and south of the No Dredge Zone. Installation was performed by attaching one edge of the geotextile panel to trees at the shoreline. The Fuchs excavator was then used to place armor stone over the geotextile for anchorage at the shore. The sinking bar assembly was lowered and the Poseidon barge was moved away from the shore. The installation was slow, but the sinking bar assembly was effective in keeping the fabric flat and submerged during armor stone placement.

GLDD attempted to install geotextile panel 39-N on February 27, using the same method that succeeded the previous day. They encountered a setback, however, when the ropes attaching the fabric to the shore broke and the geotextile panel unspooled from the roll and into the river. The geotextile and armor stone washed out into the river channel. Panel 39-N was situated atop a steeply sloped area, and GLDD failed to anchor the panel sufficiently at the top of the slope before placing armor stone farther down the slope. This placed undue stress on the three ropes, which ultimately broke.

To allow for an investigation of the failed 39-N area, GLDD moved south approximately 100 feet and successfully installed panel 36-N. On Saturday, March 1, three geotextile panels (35-N through 33-N) were installed. Minimal turbidity generation was noted during armor stone placement. The sinking bar assembly continued to be effective in keeping the fabric panels flat during installation, though some manual effort was required to keep the northern edge of the fabric from folding over due to the outgoing tide.

March 2 – March 8, 2014. Geotextile panel placement continued throughout the week, and oversight personnel did not note any major issues. Panels 32-N through 23-N were installed. Progress was sporadic due to maintenance issues and poor management of barge movements, with zero panels placed some days and as many as four panels placed on other days. Throughout the week, GLDD was observed attaching lengths of rebar to the geotextile panels to combat tidal effects and keep the panels from folding, which was generally successful. By the end of the week, GLDD had reached areas where the current was too strong to allow geotextile panel placement. They were forced to begin working in the 2- to 3-hour window surrounding high tide, when tidal effects would not cause the geotextile to fold during installation.

No panels were placed on March 7, and the following day it was observed that the exposed southern edge of panel 23-N had folded over on itself due to the incoming tide. GLDD was unable to readjust the panel manually, and geotextile panel placement was placed on hold until a strategy for repairing panel 23-N could be identified and implemented.

March 9 – March 15, 2014. The week's activities were split between removing unsuccessfully placed geotextile fabric and armor stone installed in December 2013 and continuing with geotextile placement once the situation with panel 23-N was remedied. Geotextile panels 22-N through 15-N were placed, and oversight personnel did not note any issues.

On March 11, GLDD removed the geotextile fabric and armor stone that was left in the river, immediately south of the No Dredge Zone, after the failed attempts at placement in December 2013. GLDD first marked out the approximate locations where the stone had accumulated, based on visual inspection and manual probing. The removal was performed using the CAT excavator equipped with a rock-sifting rake. The removed armor stone was deposited alongside the unused armor stone for reuse. Oversight personnel noted visible disturbance of the active layer; however, the rock-sifting rake allowed the disturbed sand and AquaGate to resettle in the vicinity of its original location.

On March 12, oversight personnel observed GLDD deckhands successfully readjusting panel 23-N by hooking the folded-over portion of the panel from the barge, lifting it slightly, and allowing the outgoing tide to unfold it. Capping operations continued thereafter with few delays. GLDD stopped attaching rebar to the geotextile panels after it was suggested that the rebar contributed to the problem with panel 23-N by bending and holding it in its folded position.

March 16 – March 22, 2014. Geotextile panel placement continued throughout the week, and oversight personnel did not note any issues. GLDD installed geotextile panels 14-N through 7-N at a rate of approximately one panel each day. As the geotextile panel lengths exceeded 100 feet near the center of the RM 10.9 capping area, it became increasingly difficult to mitigate tidal effects during panel placement, and GLDD began to schedule each day's activities during high tide to avoid any incoming or outgoing current.

On March 17, GLDD implemented a winch system that eliminated the need for tugboats when moving from one panel placement location to the next. The winch system, which was anchored at two locations on shore (one on the eastern bank and one on the western bank), controlled the movement of the main barge and the Poseidon barge in unison. When GLDD reached panel 9-N on March 21, oversight personnel noted that Type B armor stone was applied near the shore in accordance with the approved plan for high-subgrade areas.

March 23 – March 29, 2014. Geotextile panel placement continued throughout the week, and oversight personnel did not note any issues. GLDD installed panels 6-N through 1-N, working exclusively in the window surrounding high tide. On March 24, it was noted that multiple turbidity monitoring buoys were reporting negative values to the monitoring website. The buoys were recalibrated and functioned correctly the following day.

March 30 – April 5, 2014. A severe rainstorm on March 29 caused increased flow through the RM 10.9 capping area, and the increased river velocity prevented geotextile panel placement through the entire week. Oversight personnel observed as GLDD performed a variety of other tasks.

On March 31, GLDD mobilized to the northern edge of the capping area and removed the geotextile fabric and accompanying armor stone associated with the failed installation of panel 39-N. They also placed additional armor stone at multiple locations north of the No Dredge Zone based on the results of an internal bathymetric survey. Armor stone placement activity continued into the following day.

On April 2, GLDD returned to the area previously visited on March 11, where geotextile was placed unsuccessfully in December 2013. Armor stone not collected during the earlier visit was recovered. GLDD collected two active layer cores and measured thicknesses of 8.5 inches and 9.1 inches. GLDD then placed a mixture of sand and AquaGate over the disturbed area, which took approximately 1 hour.

The rest of the week was spent performing maintenance tasks on the barge and constructing a fabric shroud. The fabric shroud was an improvement to the sinking bar assembly that was designed to mitigate tidal effects and allow the crew to work longer hours each day.

April 6 – April 12, 2014. Geotextile panel installation resumed on April 6 and continued with few delays throughout the week. The area north of the No Dredge Zone was completed on April 9 with the installation of panel 000-N. The same day, GLDD performed a final removal of residual armor stone immediately south of the No Dredge Zone. The removal was performed manually, without the use of mechanical equipment. GLDD also collected active layer cores and measured thicknesses of 10 and 12 inches. Neither activity was observed by oversight personnel.

Beginning on April 8, the fabric shroud was implemented to assist in geotextile panel installation. Previously, exposed geotextile fabric passed vertically through the water column as part of the sinking bar assembly, and was therefore subjected to the river current. With the improved setup, the vertical segment of fabric was inside the fabric shroud and less susceptible to the horizontal force of the river.

Geotextile panel placement began south of the No Dredge Zone on April 10, and GLDD placed panels 31-S through 28-S during the second half of the week. Oversight personnel observed the use of Type B armor stone over the high-subgrade areas.

April 13 – April 19, 2014. Geotextile panel placement continued throughout the week, and oversight personnel did not note any issues. The fabric shroud allowed for the installation of two to four panels each day. GLDD installed panels 27-S through 12-S over the course of the week. Type B stone was utilized as needed in the high-subgrade areas.

On April 18, GLDD began collecting active layer cores from the area between panels 40-N and 36-N, where panel installation was postponed due to the unsuccessful attempt at 39-N. A core was collected from the 38-N area and oversight personnel observed 11 inches of sand and AquaGate. This activity continued into the following week.

April 20 – April 26, 2014. Geotextile panel placement continued throughout the week, and oversight personnel did not note any issues. GLDD installed panels 11-S through 1-S, reaching the southern extent of the RM 10.9 capping area on April 24, and then mobilized to the northern edge of the capping area. Geotextile panels 39-N, 38-N, and 37-N were installed between April 25 and April 26. Oversight personnel noted that, prior to the installation of 39-N, GLDD placed additional sand and AquaGate in the area, ostensibly because 39-N was the location of the initial failure, and then collected an active layer core with a thickness of 11.5 inches. To prevent another failure, panel 39-N was installed by placing the edge of the fabric farther up the slope and applying an increased volume of stone to ensure anchorage.

GLDD completed the previous week's coring activities on April 21, collecting active layer cores from the 37-N and 39-N areas. Oversight personnel observed thicknesses of 9 and 10 inches in the respective samples.

For several days beginning April 23, GLDD brought a CAT 402E mini excavator on site to even out armor stone near the shore at Riverside Park. The excavator was observed driving on the armor stone at low tide and moving stone from high spots to low spots in advance of the final bathymetric survey. Oversight personnel did not note any evidence of damage to the cap.

April 27 – May 3, 2014. The final bathymetric survey was performed over the course of the week. As the surveyors identified areas with insufficient armor stone coverage, GLDD mobilized the equipment barge to these locations and placed additional armor stone. Oversight personnel observed survey activities and armor stone placement every day; however, the interim survey results were not made available and it was therefore difficult to track progress. The CPG submitted the final armor stone survey on May 6.

May 4 – May 10, 2014. There was no activity on site during the first half of the week, as GLDD completed armor stone placement on May 3 and the survey was not finalized, reviewed by the CPG and its engineer, submitted to EPA, and approved until May 7. The final phase of the RM 10.9 capping was placement of the habitat layer, which began on May 8.

The habitat (sand) layer was placed with the Telebelt® using the same procedure employed during active layer installation. GLDD began placing sand at the southern edge of the capping area on May 8.

Two test areas were placed on the first day to determine whether one or two lifts of sand would be adequate to provide a sufficient habitat layer atop the armor stone. After 24 hours (i.e., one daily tidal cycle) had elapsed, oversight personnel visited the test areas at low tide to observe the habitat layer. It was noted that, in the area that received only one lift, the sand had settled into the armor stone void space and failed to provide sufficient coverage atop the stone. The area receiving two lifts, on the other hand, was fairly well-covered with a relatively uniform layer of sand and significantly less armor stone showing through. These observations were relayed to EPA, who directed the CPG to proceed with two lifts of sand over the entire capping area.

On May 10, the Fuchs excavator malfunctioned and could not be immediately repaired.

May 11 – May 17, 2014. There was no work in the river this week. GLDD was unable to replace the excavator or procure a replacement.

May 18 – May 24, 2014. Habitat layer placement resumed on May 21 when a replacement excavator was mobilized to the site. Sand placement proceeded with few delays, and by the end of the week GLDD had completed two lifts of sand over the entire area south of the No Dredge Zone. Oversight personnel did not note any issues.

May 25 – May 31, 2014. Habitat layer placement proceeded north of the No Dredge Zone and was completed on May 29. Visible plumes of suspended solids were generated due to sand placement; however, turbidity remained below trigger levels at the monitoring buoys. Oversight personnel observed, and the CPG confirmed, that sand was only placed to the edge of the dredged area and not atop the approximately 5-foot strip of geotextile fabric and armor stone beyond the dredge line.

After completing the habitat layer, GLDD used leftover sand to cover exposed armor stone at the Lyndhurst Fire Department boat launch before beginning demobilization activities. Oversight personnel observed as grass seed was applied at various locations in the park where the remedial activities had impacted the grass cover. Pieces of rope, previously used to anchor the fabric panels to the trees, were removed. Exposed lengths of fabric were either cut or anchored with rocks to prevent flapping.

Demobilization was completed on May 30 with the removal of the monitoring buoys and the downriver movement of the Telebelt®, the main excavator barge, and an empty scow.

Conclusions

The dredging and capping for RM 10.9 was completed; however, there were lengthy delays due to problems that arose during the project. Certain issues were outside of GLDD's control (e.g., bridge breakdowns), but some issues were a result of GLDD's activities (e.g., equipment breakdowns). For the next round of dredging, the dredge contractor should consider implementing a routine maintenance program for their equipment and keeping spare equipment/parts on hand to quickly troubleshoot equipment problems and minimize delays. Furthermore, as the bridges could not be relied upon to operate throughout the project, a review of the bridges' mechanical and electrical systems is recommended during the design phase for the next round of dredging.

Results of the water column transect, turbidity, and air monitoring indicate that dredging and capping activities at RM 10.9 did not significantly impact air and water quality. A reduction of routine monitoring activities can be considered for the next round of dredging.

Placement of the geotextile fabric proved to be extremely difficult due to the high flows and difficulty anchoring the fabric. A constructability review is recommended for the design of the next round of

dredging. Additionally, an alternative material to geotextile fabric should be considered. Finally, in order to maintain productivity and remain on schedule, it is critical to have a dredge contractor that is well versed in environmental dredging and capping techniques.

Attachment 1

Daily Reports and Photos



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 1-Aug-2013	Report #: lpr_rm_10.9_Aug-01
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Sun	Sun
Temperature	74 F	68 F
Wind Direction	SSE 0-7 mph	ESE 0-9 mph

Description of work performed by contr. this report period:

- GLDD equipment mobilized onsite at LPR RM 10.9: two (2) tugboats, one (1) large dump scow (max. 17 ft draft) moored north of dredge area, one (1) dredge barge (HUGHES 823), one (1) survey boat, two (2) work boats, and one (1) Fuchs excavator with environmental clamshell bucket.
- GLDD deploying silt curtain around southern-most dredge area for RM 10.9. GLDD will start dredging at southern end of RM 10.9 dredge area and work north.
 - Personnel from OSI, GLDD, de maximis, CH2M Hill, USEPA, and CDM Smith present.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 0800-0900: formal kickoff meeting at Clean Earth facility in Kearny, NJ to discuss facility operations, equipment, and Health & Safety requirements.
 - Personnel from Clean Earth, GLDD, de maximis, CH2M Hill, USEPA, and CDM Smith present.
- 0900-1000: informal meeting at Riverside County Park in Lyndhurst, NJ to discuss current activities, status of dredge start, protocol for interactions with the public, status of air monitoring.
 - Personnel from de maximis, USEPA, and CDM Smith present.

Sampling and Analyses:

- Riverside County Park: Northern air monitor operational in morning, shutdown by 1400 (2 pm). The 48 hr of continuous pre-dredging air sampling was completed for the Northern air monitor in



the afternoon. Southern air monitor operational all day. Middle air monitor (adjacent to pumphouse) set up in the morning and operational throughout the afternoon. No issues were observed.

- Riverside County Park: Weather Station set up adjacent to Fire Department boat launch, operational all day. No issues were observed.

Major Issues	Description & Reason

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations.

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
John Rolfe	de maximis
Todd King	GLDD
Tim Briggs	GLDD
Gary Foster	CH2M Hill
Mike Holsinger	CH2M Hill
James (air)	CH2M Hill
Jen Wilkie	CH2M Hill
Andy (water)	CH2M Hill
Jeff (H&S)	CH2M Hill
Joe (QA)	CH2M Hill
Steve Sands	Clean Earth
Chris Thorpe	Clean Earth
Stephanie Vaughn	USEPA
Michael Hoppe	USEPA
Sharon Budney	CDM Smith
Ben Hammond	CDM Smith
Amy Picunas	CDM Smith

Site Representative: Amy Picunas

Date: 1-August-2013



Representative's signature:



August 1 2013: CH2M Hill calibrated central air monitor



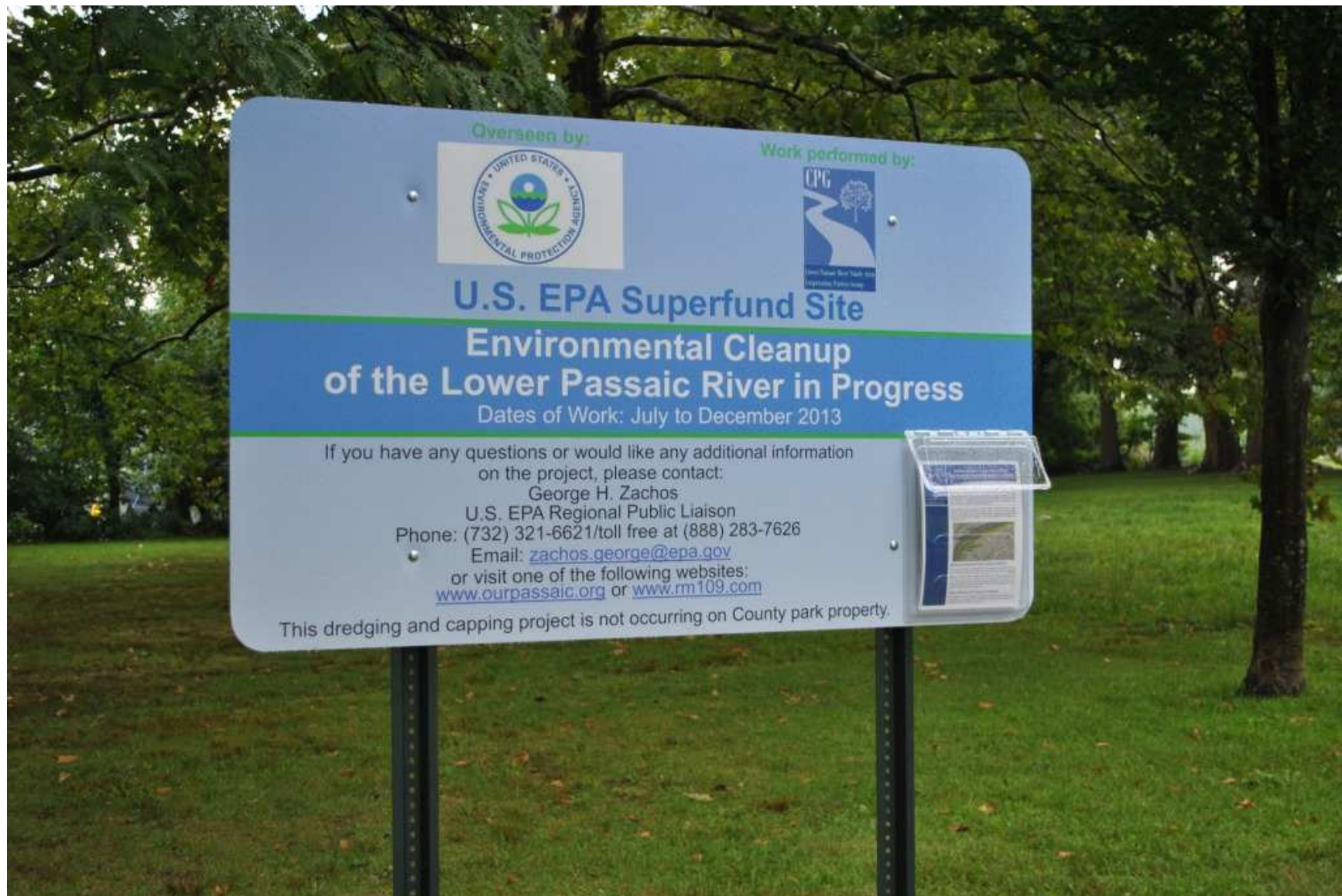
August 1 2013: Checking on in-river air unit



August 1 2013: Dump scow moored across from fire department boat launch



August 1 2013: GLDD deploying silt curtain



August 1 2013: In-park sign and informational packets



August 1 2013: Northern air monitor (near baseball field)



August 1 2013: Riverbank sign and informational packets



August 1 2013: Southern air monitoring station



August 1 2013: Southern end of silt curtain



August 1 2013: Southern end of silt curtain deployed and anchored to shore



August 1 2013: Weather station



August 1 2013: Weather station



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 2-Aug-2013	Report #: lpr_rm_10.9_Aug-02
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Sun	Sun
Temperature	71 F	85 F
Wind Direction	WNW 0-5 mph	WSW 0-19 mph

Description of work performed by contr. this report period:

- GLDD has fully deployed and started anchoring the silt curtain around southern-most dredge area for RM 10.9. Dump scow moored to dredge platform. GLDD calibrating GPS unit for the dredge bucket.
 - Personnel from OSI, GLDD, de maximis, CH2M Hill, USEPA, and CDM Smith present.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 0930: Email received from M Hoppe (USEPA) informing CH2M Hill that TSS-Turbidity correlation sampling for the first 48 hrs of dredging is not needed. J Wilkie (CH2M Hill) informs A Picunas (CDM Smith) that the sampling will not occur.

Sampling and Analyses:

- Riverside County Park: Northern air monitor still shutdown. The Southern air monitor operational in the morning and shutdown during the afternoon (approximately by 1400, 2 pm). The 48 hr of continuous pre-dredging air sampling was completed for the Southern air monitor in the afternoon. Middle air monitor (adjacent to pumphouse) operational throughout the day. No issues were observed.
- Riverside County Park: Weather Station set up adjacent to Fire Department boat launch, operational all day. No issues were observed.



Major Issues	Description & Reason

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations.

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
John Rolfe	de maximis
Gary Foster	CH2M Hill
Mike Holsinger	CH2M Hill
James (air)	CH2M Hill
Jen Wilkie	CH2M Hill
Andy (water)	CH2M Hill
Jeff (H&S)	CH2M Hill
Joe (QA)	CH2M Hill
Stephanie Vaughn	USEPA
Amy Picunas	CDM Smith

Site Representative: Amy Picunas

Date: 2-August-2013

Representative's signature:



August 2 2013: In-river air monitor



August 2 2013: Silt curtain anchored and unfurled



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 3-Aug-2013	Report #: lpr_rm_10.9_Aug-03
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Light Rain	Sun
Temperature	71 F	78 F
Wind Direction	W 0-4 mph	WSW 0-15 mph

Description of work performed by contr. this report period:

- Between 0945-1700, GLDD dredged the southwestern corner of RM 10.9 dredge area, moving north. Approximately 550 cy of sediment dredged.
 - Personnel from OSI, GLDD, de maximis, CH2M Hill, and CDM Smith present.
- Observed good seal on bucket, no decanting of water or significant release of sediment observed. No odors or turbidity plumes observed. Dredge cycle times are approximately 45-60 seconds.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 0930: CH2M Hill moves in-river air monitoring unit approximately 100 ft south due to navigability concerns. Unit is still in an upwind position, A Picunas (CDM Smith) received verbal approval from S Vaughn and M Hoppe (USEPA) to the change.
- 1620: J Wilkie (CH2M Hill) informed to move in-river air monitoring unit to location downwind of dump scow after dredging completed for the day. At 1730, A Picunas (CDM Smith) observed dump scow moored across of FD boat launch and in-river air monitoring unit anchored northeast (downwind) of dump scow, see photo.

Sampling and Analyses:

- Riverside County Park: All three (3) air monitors and weather station operational throughout the day. No issues were observed.



- In-River Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day, no issues observed. Buoy #2, approximately 200 ft south of active dredging, reported 15-min turbidity readings up near 20-25 NTUs around 1400 (2 pm).
- Composite Surface Water Sampling: Four (4) rounds of composite samples were collected every two (2) hours from Buoys 1 – 4, between 1000 – 1630 to coincide with active dredging activities. Sampling protocol follows:
 - CH2M Hill cuts dedicated tubing for each Buoy. Platinum-cured silicone tubing used in peristaltic pump, see photo.
 - OSI lowers YSI and dedicated tubing to mid-depth and begins two (2) minute purge. The YSI collects field parameters readings (pH, temperature, turbidity, DO, salinity) every half second (i.e., two (2) readings/second)
 - After 2 minute purge, an aliquot of approximately four (4) L is collected into a plastic carboy (1 carboy for each Buoy). Field readings are recorded in the log book
 - After completing the 4 rounds, the carboys are brought back to the Field Office. A new length of platinum-cured silicone tubing is cut for each carboy and sample bottles are filled using a peristaltic pump. Total Hg and Dissolved Hg sample bottles are filled using the “Clean Hand” method.

Deviation from Monitoring Plan/Design	Description & Reason
Composite Buoy Sampling Plan called for collection of five (5) aliquots every two (2) hours during active dredging. <ul style="list-style-type: none"> - Deviation: actually collected four (4) aliquots every two (2) hours 	Only collected four (4) aliquots every two (2) hours because active dredging only occurred between 1000 and 1700 (7 hours total). The fifth aliquot would have been collected outside of active dredging and would not be representative of possible water quality impacts as a result of dredging activities.

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations.

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Gary Foster	CH2M Hill
Mike Holsinger	CH2M Hill



James (air)	CH2M Hill
Jen Wilkie	CH2M Hill
Andy (water)	CH2M Hill
Jeff (H&S)	CH2M Hill
Joe (QA)	CH2M Hill
Steve	OSI
Jeff	OSI
Carl	OSI
Amy Picunas	CDM Smith

Site Representative: Amy Picunas

Date: 3-August-2013

Representative's signature:



August 3 2013: Buoys 2 and 5 downstream of dredging



August 3 2013: CH2M Hill moving in-river air monitor to be downwind of dump scow (moved later)



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 5-Aug-2013	Report #: lpr_rm_10.9_Aug-05
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Partly Cloudy	Scattered Clouds
Temperature	67 F	79 F
Wind Direction	NW 0-8 mph	N 0-10 mph

Description of work performed by contr. this report period:

- Between 0745-1730, GLDD dredged the southwestern corner of RM 10.9 dredge area, moving north. Approximately 150 cy of sediment dredged.
 - Personnel from OSI, GLDD, de maximis, CH2M Hill, USEPA, and CDM Smith present.
- Observed good seal on bucket, no decanting of water or significant release of sediment observed. No odors or turbidity plumes observed. Dredge cycle times are approximately 45-60 seconds.
- Information relayed to A Picunas (CDM Smith) from J Rolfe (de maximis). Sometime between 0745 and 1000 one panel of silt curtain became unanchored and separated from the rest of the silt curtain. GLDD immediately indentified the problem and suspended dredging, and then re-attached and re-anchored the panel. No turbidity plumes were observed and no spikes in turbidity were recorded at the in-river monitors.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1110: J Wilkie (CH2M Hill) received email confirming acceptance of bumping up composite sample collection to 1 hr, see Deviations Section below for details.

Sampling and Analyses:

- Riverside County Park: All three (3) air monitors and weather station operational throughout the day. No issues were observed.
- In-River Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day, no



issues observed. Buoy #2, approximately 200 ft south of active dredging, reported 15-min turbidity readings up near 30 NTUs around 1400 (2 pm).

- Composite Surface Water Sampling: Four (4) rounds of composite samples were collected every two (2) hours from Buoys 1 – 4, between 0800 – 1430 to coincide with active dredging activities. Sampling protocol follows:
 - CH2M Hill cuts dedicated tubing for each Buoy. Platinum-cured silicone tubing used in peristaltic pump, see photo.
 - OSI lowers YSI and dedicated tubing to mid-depth and begins two (2) minute purge. The YSI collects field parameters readings (pH, temperature, turbidity, DO, salinity) every half second (i.e., two (2) readings/second)
 - After 2 minute purge, an aliquot of approximately four (4) L is collected into a plastic carboy (1 carboy for each Buoy). Field readings are recorded in the log book
 - After completing the 4 rounds, the carboys are brought back to the Field Office. A new length of platinum-cured silicone tubing is cut for each carboy and sample bottles are filled using a peristaltic pump. Total Hg and Dissolved Hg sample bottles are filled using the “Clean Hand” method.
- A Picunas (CDM Smith) collected a split sample from water collected at Buoy #2. Total Hg (plus MS/MSD), Dissolved Hg (plus MS/MSD), POC/DOC (plus MS/MSD), SSC (aka TSS), PCB Congener, Dioxin/Dibenzofurans collected. Total and Dissolved Hg bottles filled using the “Clean Hand” method. Sample bottles were placed in a cooler with ice, a custody seal on the cooler cover, and placed the cooler in an onsite refrigeration unit until the cooler will be picked up Tuesday morning by J Rakowski (CDM Smith).

Deviation from Monitoring Plan/Design	Description & Reason
<p>Composite Buoy Sampling Plan called for collection of five (5) aliquots every two (2) hours during active dredging.</p> <ul style="list-style-type: none"> - Volume Deviation: the first 2 aliquots 4L collected, the final 2 aliquots 6-8 L collected. - Frequency Deviation: the first 2 aliquots collected every two (2) hours. Final 2 aliquots collected every one (1) hour 	<p>Volume: The final 2 aliquots collected were at higher volumes (6-8 L) to provide sufficient volumes for filling all the sample bottles (including a split sample filled from water collected at Buoy #2).</p> <p>Frequency: Only collected four (4) aliquots to coincide with active dredging activities. The first 2 aliquots collected every two (2) hours and the final 2 aliquots collected every one (1) hour because CH2M Hill was informed by GLDD that active dredging would only occur between 0745 and 1400 (6 hours total). The fifth aliquot would have been collected outside of active dredging and would not be representative of possible water quality impacts as a result of dredging activities.</p>



Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations.

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
John Rolfe	de maximis
Gary Foster	CH2M Hill
Mike Holsinger	CH2M Hill
James (air)	CH2M Hill
Jen Wilkie	CH2M Hill
Andy (water)	CH2M Hill
Rachel	CH2M Hill
Jeff (H&S)	CH2M Hill
Joe (QA)	CH2M Hill
Steve	OSI
Jeff	OSI
Dusty	OSI
Stephanie Vaughn	USEPA
Amy Picunas	CDM Smith

Site Representative: Amy Picunas

Date: 5-August-2013

Representative's signature:



August 5 2013: CH2M Hill filling dissolved mercury bottle through 0.4 micron filter



August 5 2013: CH2M Hill filling total mercury bottle using Clean Hand technique



August 5 2013: Dredge cut, starting at east bank and working toward channel



August 5 2013: Mobile in-park air monitor, positioned in close proximity to dredging operation



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 6-Aug-2013	Report #: lpr_rm_10.9_Aug-06
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Partly Cloudy	Scattered Clouds
Temperature	68 F	79 F
Wind Direction	NNE 0-8 mph	SE 0-9 mph

Description of work performed by contr. this report period:

- Split samples were picked up at field office by J Rakowski (CDM Smith) at 0900.
- 1530: Amtrak reports bridge repairs will be complete tonight at 1800.
- 1730: County Bridge Authority threatening 2 week shutdown of Bridge St bridge for repairs
 - Bridge St bridge is the lowest clearance bridge, it must be operational in order to transport dump scows

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1000, Weekly Progress Meeting: personnel from de maximis, GLDD, CH2M Hill, Clean Earth, USEPA, CDM Smith present. Items discussed:
 - progress of dredging (approx 550 cy of sediment dredged so far),
 - in-river turbidity monitoring results (no trigger or action levels met),
 - composite surface water sampling activities (YSI turbidity readings correlated well with the in-river turbidity monitoring results),
 - real-time air monitoring results are showing orders of magnitude below Residential Standards,
 - additional frac tanks have been deployed at the Clean Earth facility to handle a larger volume of water from the dump scows,
 - Clean Earth will empty remaining non-project sediment from bins in the next day and install concrete block walls for bins.
 - Clean Earth anticipating shipping tractor trailers offsite at rate of 35 loads/day totaling approx



- 750 cy of stabilized sediment
- CH2M Hill will sign manifests
- Schedule moving forward:
 - Amtrak bridge will be fixed tonight (1800 Aug 6 2013)
 - Bridge St bridge repairs will be underway soon
 - Anticipate 3 days to complete repairs
 - Crew feels they can operate bridge with the refurbished motor currently in place
 - Planning to transport 2 loaded scows every other day to Clean Earth.
- 1200, discussion between personnel from de maximis, CH2M Hill, USEPA, CDM Smith on turbidity triggers and actions:
 - Trigger: exceedance of ambient +30 NTUs measured continuously over 1 hr (4 consecutive 15-minute readings)
 - Action: exceedance of ambient +30 NTUs AND total turbidity reading >50 NTUs measured continuously over 1 hr (4 consecutive 15-minute readings)
 - CH2M Hill will have 30 minutes after the 4 consecutive readings to investigate source of turbidity. If RM10.9-dredging is identified as the source or if no clear source is identified, dredging will be shutdown and transect sampling will begin. Transect sampling will be conducted at the buoy reporting >50 NTUs and at the next downstream buoy. Samples will be collected at mid-depth, 50 feet from east and west shorelines and in the centerline of the river. CDM Smith will collect split samples as required.

Sampling and Analyses:

- Riverside County Park: All three (3) air monitors and weather station operational throughout the day. No issues were observed.
- In-River Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day, no issues observed.

Deviation from Monitoring Plan/Design	Description & Reason

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations.

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
John Rolfe	de maximis



Gary Foster	CH2M Hill
Mike Holsinger	CH2M Hill
James (air)	CH2M Hill
Jen Wilkie	CH2M Hill
Andy (water)	CH2M Hill
Rachel	CH2M Hill
Jeff (H&S)	CH2M Hill
Joe (QA)	CH2M Hill
Roy	CH2M Hill
Roger Law	CH2M Hill
George Hicks	CH2M Hill
Todd King	GLDD
Chris Thorpe	Clean Earth
Kent Sykes	Clean Earth
Stephanie Vaughn	USEPA
Michael Hoppe	USEPA
Sharon Budney	CDM Smith
Amy Picunas	CDM Smith

Site Representative: Amy Picunas

Date: 6-August-2013

Representative's signature:



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 7-Aug-2013	Report #: lpr_rm_10.9_Aug-07
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Overcast	Overcast
Temperature	73 F	78 F
Wind Direction	SE 0-8 mph	SE 0-10 mph

Description of work performed by contr. this report period:

- 0830: email from S Vaughn (USEPA) confirms the Turbidity Trigger, Action and Investigation criteria discussed yesterday. See the 6 Aug 2013 Daily Report for details.
- 1000: M Hoppe (USEPA) observed bent tube on mobile sampler in Riverside Park. J Wilkie (CH2M Hill) replaced part, mobile unit operated correctly throughout the day.
- 1030 – 1440: GLDD dredged the southern end of RM 10.9 dredge area. Dredge cut starts on eastern bank and moves toward channel, moving north after each cut. Estimate approximately 150 cy of sediment dredged.
 - Observed good seal on bucket, no decanting of water or significant release of sediment observed. No odors or turbidity plumes observed. Dredge cycle times are approximately 45-60 seconds.
 - Scow drafting approximately 9 ft (maximum draft allowable based on channel depths)
 - GLDD observed adjusting silt curtain to account for tidal shifts
 - Sediment being dredged is predominantly sand, some woody debris observed

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1100, RM 10.9 Press Conference: USEPA, NJDEP, various political dignitaries, and press corps present for official kickoff of dredging activities.

Sampling and Analyses:



- Riverside County Park: All three (3) air monitors and weather station operational throughout the day. No issues were observed.
- In-River Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day, no issues observed.

Deviation from Monitoring Plan/Design	Description & Reason

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations.

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
John Rolfe	de maximis
Gary Foster	CH2M Hill
Mike Holsinger	CH2M Hill
James (air)	CH2M Hill
Jen Wilkie	CH2M Hill
Andy (water)	CH2M Hill
Rachel	CH2M Hill
Jeff (H&S)	CH2M Hill
Joe (QA)	CH2M Hill
Stephanie Vaughn	USEPA
Michael Hoppe	USEPA
Sharon Budney	CDM Smith
Amy Picunas	CDM Smith

Site Representative: Amy Picunas

Date: 7-August-2013

Representative's signature:



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 9-Aug-2013	Report #: lpr_rm_10.9_Aug-09
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Overcast	Mostly Cloudy
Temperature	76 F	87 F
Wind Direction	S 0-9 mph	SW 0-14 mph

Description of work performed by contr. this report period:

- 1500 – 1920: GLDD dredged the southern end of RM 10.9 dredge area. Dredge cut starts on eastern bank and moves toward channel, moving north after each cut. Estimate approximately 750 cy of sediment dredged.
 - Observed good seal on bucket most of the time. No decanting of water observed, however a limited release of sediment observed, likely due to woody debris. No odors or turbidity plumes observed. Dredge cycle times are approximately 45-60 seconds.
 - Scow drafting approximately 9 ft (maximum draft allowable based on channel depths)
 - GLDD observed adjusting silt curtain to account for tidal shifts
 - Sediment being dredged is predominantly sand, some woody debris observed

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- From prior measurements, CH2M Hill observed that the northernmost air monitoring unit was located in a stagnant area (i.e., little air flow). J Wilkie (CH2M Hill) proposed moving the air monitoring unit approximately 50 ft south into an area with more air flow. Per J Wilkie, M Hoppe (USEPA) gave approval earlier in the day.

Sampling and Analyses:

- Riverside County Park: All four (4) air monitors and weather station operational throughout the day. No issues were observed.



- A Picunas (CDM Smith) observed the northernmost air monitoring unit was moved approximately 40 ft south by the end of the day, in accordance with the CH2M Hill request described above.
- In-River Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day, no issues observed.
- Transect Surface Water Sampling: The first round of transect samples were collected from Buoys 1 – 4 today. Sample were collected at mid-depth in three (3) locations of a transect at each of the buoys. The locations were 50 ft off the east and west shorelines (based on Mean Low Water Elevation) and in the channel. In prior samplings the Northings and Eastings of each of the transect sampling locations were taken. OSI positioned the sampling boat to these Northings and Eastings to ensure samples were collected from same locations. The samples were collected between 1620 – 1840, during active dredging. Sampling protocol follows:
 - CH2M Hill cuts dedicated tubing for each sampling location. Platinum-cured silicone tubing used in peristaltic pump.
 - OSI lowers YSI and dedicated tubing to mid-depth and begins two (2) minute purge. The YSI collects field parameters readings (pH, temperature, turbidity, DO, salinity) every half second (i.e., two (2) readings/second)
 - After 2 minute purge, an aliquot of approximately seven (7) L is collected into a plastic carboy (1 carboy for each Buoy). Grab samples are collected (TSS, POC, DOC). Field readings are recorded in the log book
 - After completing the sampling, the carboys are brought back to the Field Office. A new length of platinum-cured silicone tubing is cut for each carboy and sample bottles are filled using a peristaltic pump. Total Hg and Dissolved Hg sample bottles are filled using the “Clean Hand” method.

Deviation from Monitoring Plan/Design	Description & Reason
In-River mobile air monitoring unit observed downwind of dredging activities	Wind direction shifted during the late afternoon, due to storm events. A Picunas (CDM Smith) informed CH2M Hill of the deviation. Due to timing the monitoring unit was not moved.

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations.

Are atmospheric monitoring results acceptable? Yes.



Site Visitors	Representing
Stan Kaczmarek	de maximis
John Rolfe	de maximis
Gary Foster	CH2M Hill
Mike Holsinger	CH2M Hill
James (air)	CH2M Hill
Jen Wilkie	CH2M Hill
Andy (water)	CH2M Hill
Rachel	CH2M Hill
Jeff (H&S)	CH2M Hill
Joe (QA)	CH2M Hill
Dusty	OSI
Amy Picunas	CDM Smith

Site Representative: Amy Picunas

Date: 9-August-2013

Representative's signature:



August 9, 2013 Composite surface water sampling



August 9, 2013: Filling TSS grab sample during transect sampling



August 9, 2013: New location for northern air monitor



August 9, 2013: Observed sediment release from dredge bucket



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 10-Aug-2013	Report #: lpr_rm_10.9_Aug-10
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Mostly Cloudy	Mostly Cloudy
Temperature	75 F	82 F
Wind Direction	WNW 0-6 mph	WNW 0-10 mph

Description of work performed by contr. this report period:

- 0630 – 1030: GLDD resumes dredging the southern end of RM 10.9 dredge area. Dredge cut starts on eastern bank and moves toward channel, moving north after each cut. Estimate approximately 50 cy of sediment dredged.
 - Observed good seal on bucket most of the time. No decanting of water observed, however a limited release of sediment observed, likely due to woody debris. No odors or turbidity plumes observed. Dredge cycle times are approximately 45-60 seconds.
 - Scow drafting 9 ft by 1030 (maximum draft allowable based on channel depths)
 - GLDD observed adjusting silt curtain to account for tidal shifts
 - Sediment being dredged is predominantly sand, some woody and construction debris (concrete block and traffic cone) observed.
- 1200 – 1630: GLDD moves out full scow and replaces with an empty scow. GLDD resumes dredging the southern end of RM 10.9 dredge area. Currently located about halfway up the southern dredge area. Dredge cut starts on eastern bank and moves toward channel, moving north after each cut. Estimate approximately 200 cy of sediment dredged.
 - Observed good seal on bucket most of the time. No decanting of water observed, however a limited release of sediment observed, likely due to woody debris. No odors or turbidity plumes observed. Dredge cycle times are approximately 45-60 seconds.
 - Scow drafting approximately 7 ft by 1600
 - GLDD observed periodically verifying GPS readings of the dredge bucket. A deckhand using a



hand-held Trimble unit took a reading of top of water elevation. At the same time the dredge excavator operator positioned dredge bucket on the water surface. With the elevation readings confirmed, dredging resumed.

- Sediment being dredged is predominantly sand, some clay observed along with woody and construction debris (concrete block) observed.
- With the right lighting conditions small turbidity clouds were observed immediately around bucket cuts. The clouds did not migrate and no turbidity plumes were observed outside the silt curtain.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

■

Sampling and Analyses:

- Riverside County Park: All four (4) air monitors and weather station operational throughout the day. No issues were observed.
 - The adjusted location of the northernmost air monitoring unit is resulting in less random Hydrogen Sulfide readings (H₂S). Location appears to be receiving between air flow and thus better data readings.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day, no major issues observed.
 - Buoy #5 registered a series of high turbidity readings around 1500-1600 today. Due to a large tree limb getting caught in the buoy moorings. CH2M Hill attempted to remove the tree branch which resulted in a sediment disturbance in close proximity to meter. Turbidity readings dropped off immediately afterwards and remained well under the 50 NTU threshold for the remainder of the day. No turbidity plumes were observed outside the silt curtain.
- In-River Air Monitoring: unit remained upwind of dredging activities and operational throughout the day.

Deviation from Monitoring Plan/Design	Description & Reason

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations.

Are atmospheric monitoring results acceptable? Yes.



Site Visitors	Representing
Stan Kaczmarek	de maximis
John Rolfe	de maximis
Gary Foster	CH2M Hill
Mike Holsinger	CH2M Hill
James (air)	CH2M Hill
Jen Wilkie	CH2M Hill
Andy (water)	CH2M Hill
Rachel	CH2M Hill
Jeff (H&S)	CH2M Hill
Joe (QA)	CH2M Hill
Amy Picunas	CDM Smith

Site Representative: Amy Picunas

Date: 10-August-2013

Representative's signature:



August 10, 2013 GLDD checking GPS on bucket



August 10, 2013: Empty scow moored across from fire department boat launch



August 10, 2013: Turbidity cloud resulting from bucket cut – did not migrate



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 12-Aug-2013	Report #: lpr_rm_10.9_Aug-12
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Mostly Cloudy	Mostly Cloudy
Temperature	71 F	82 F
Wind Direction	NNE 0-6 mph	SSE 0-4 mph

Description of work performed by contr. this report period:

- 0630 – 1600: GLDD resumes dredging the southern end of RM 10.9 dredge area. Dredge cut starts on eastern bank and moves toward channel, moving north after each cut.
 - Observed good seal on bucket most of the time. No decanting of water observed, however a limited release of sediment observed, likely due to woody debris. No odors or turbidity plumes observed. Dredge cycle times are approximately 45-60 seconds.
 - Scow drafting 7 ft by 1600, GLDD intending to load dump scow to maximum draft (9 ft) by end of the day (approximately 1930).
 - GLDD observed adjusting silt curtain to account for tidal shifts
 - Sediment being dredged is predominantly sand, some woody observed.
- Observed OSI performing bathymetry survey to verify GLDD completed a 2 ft cut at the southernmost end of RM 10.9 dredging area.
- Per S Kaczmarek, the two filled dump scows are being offloaded today at Clean Earth. The two scows should be offloaded completely today and transported up to the RM 10.9 dredge area tonight.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

■

Sampling and Analyses:



- Riverside County Park: All four (4) air monitors and weather station operational throughout the day. No issues were observed.
 - The adjusted location of the northernmost air monitoring unit is still reporting multiple Hydrogen Sulfide readings (H_2S). S Kaczmarek will be requesting to have unit moved to the open area adjacent to the Fire Department boat launch.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day, no major issues observed.
- In-River Air Monitoring: unit remained upwind of dredging activities and operational throughout the day.
- Transect Surface Water Sampling: The second round of transect samples were collected from Buoys 1 – 2 today. Sample were collected at mid-depth in three (3) locations of a transect at each of the buoys. The locations were 50 ft off the east and west shorelines (based on Mean Low Water Elevation) and in the channel. In prior samplings the Northings and Eastings of each of the transect sampling locations were taken. OSI positioned the sampling boat to these Northings and Eastings to ensure samples were collected from same locations. The samples were collected between 0830 – 1000, during active dredging. Sampling protocol follows:
 - CH2M Hill cuts dedicated tubing for each sampling location. Platinum-cured silicone tubing used in peristaltic pump.
 - OSI lowers YSI and dedicated tubing to mid-depth and begins two (2) minute purge. The YSI collects field parameters readings (pH, temperature, turbidity, DO, salinity) every half second (i.e., two (2) readings/second)
 - After 2 minute purge, an aliquot of approximately seven (7) L is collected into a plastic carboy (1 carboy for each Buoy). Grab samples are collected (TSS, POC, DOC). Field readings are recorded in the log book
 - After completing the sampling, the carboys are brought back to the Field Office. A new length of platinum-cured silicone tubing is cut for each carboy and sample bottles are filled using a peristaltic pump. Total Hg and Dissolved Hg sample bottles are filled using the “Clean Hand” method.
- B Hammond (CDM Smith) collected a split sample from water collected at Buoy #2. Total Hg (plus MS/MSD), Dissolved Hg (plus MS/MSD), POC/DOC (plus MS/MSD), SSC (aka TSS), PCB Congener, Dioxin/Dibenzofurans collected. Total and Dissolved Hg bottles filled using the “Clean Hand” method. Sample bottles were placed in a cooler with ice, a custody seal on the cooler cover, and placed the cooler in an onsite refrigeration unit until B Hammond transported the cooler to the Edison office at the end of the day.

Deviation from Monitoring Plan/Design	Description & Reason



Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations.

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
John Rolfe	de maximis
Gary Foster	CH2M Hill
Mike Holsinger	CH2M Hill
James (air)	CH2M Hill
Jen Wilkie	CH2M Hill
Andy (water)	CH2M Hill
Rachel	CH2M Hill
Jeff (H&S)	CH2M Hill
Joe (QA)	CH2M Hill
Stephanie Vaughn	USEPA
Ben Hammond	CDM Smith
Amy Picunas	CDM Smith

Site Representative: Amy Picunas

Date: 12-August-2013

Representative's signature:



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 13-Aug-2013	Report #: lpr_rm_10.9_Aug-13
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Light Rain	Mostly Cloudy
Temperature	74 F	76 F
Wind Direction	Calm	Variable 0-4 mph

Description of work performed by contr. this report period:

- 0800: observe two emptied dump scows moored across from Fire Dept boat launch. The larger scow was returned from Clean Earth to RM 10.9 with approximately 1.5-2 ft of sediment remaining.
- 0830 – 1700: GLDD resumes dredging the southern end of RM 10.9 dredge area. Dredge cut starts on eastern bank and moves toward channel, moving north after each cut.
 - Observed good seal on bucket part of the time. No decanting of water observed, however a release of sediment observed, due to woody debris. The woody debris is more prevalent closer to shore. No odors observed. Dredge cycle times are approximately 45-60 seconds.
 - Scow that was being loaded yesterday is completely loaded by 1200 today. Loaded scow is transported to mooring area across from FD boat launch to store until it can be transported out again (estimated Thursday evening the Bridge Street bridge repairs will be completed).
 - The larger scow that had been returned with 1.5-2 ft of sediment is loaded throughout the afternoon. New scow is drafting 7 ft by 1700.
 - GLDD observed adjusting silt curtain to account for tidal shifts
 - Sediment being dredged is predominantly sand and clay, some woody observed. Observed that the clay percentage within the dredged sediment has increased as the dredging has moved north.
- Per S Kaczmarek, bridge repairs at Bridge Street have commenced. Estimating repairs will be completed by end of day Thursday.



Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1000, Weekly Progress Meeting: personnel from de maximis, GLDD, CH2M Hill, Clean Earth, USEPA, CDM Smith present. Items discussed:
 - Progress of Dredging:
 - approx 2,150 cy of sediment dredged through end of day Saturday 10 August 2013,
 - approx 650 tons of sediment plus 10% Portland cement has been stabilized at Clean Earth facility. The stabilized sediment will be loaded onto trucks starting tomorrow,
 - 62,000 gallons of dredge decant water is in fracture tanks at the Clean Earth facility. Clean Harbors will be using vac trucks to transport the water to offsite treatment,
 - Monitoring Activities:
 - in-river turbidity monitoring results (no trigger or action levels met),
 - transect and TSS surface water sampling activities conducted (YSI turbidity readings correlated well with the in-river turbidity monitoring results). CDM Smith collected a split sampling from the Buoy #2 transect yesterday,
 - real-time air monitoring results are showing orders of magnitude below Residential Standards,
 - PMS1 (northernmost air monitoring station) still seeing periodic H₂S hits. Discussed further, see entry for 1130-1230 below.
 - Phase 1 COPC monitoring will be completed tomorrow (intensive simultaneous monitoring for all COPCs). Phase 2 COPC monitoring will begin Thursday or Friday this week (monitoring for only 1 COPC at a time).
 - Schedule moving forward:
 - Two dump scows were offloaded at Clean Earth and transported to RM 10.9 dredge site yesterday. Plan to dredge until all 3 scows are fully loaded.
 - Bridge St bridge repairs will be conducted Tues-Thurs this week
 - Anticipate transporting 2 loaded scows to Clean Earth Thursday night.
 - Friday, Clean Earth will offloaded the 2 scows and they will be transported back to RM 10.9
 - Clean Harbor will be transporting dredge decant water from the Clean Earth frac tanks to offsite disposal via vac trucks. Anticipate that work to be completed between Wed-Thurs this week.
 - Interactions with Public:
 - No major issues with the rowing club. A meeting scheduled for one evening last week between Stan and the rowing club was cancelled by members of the rowing club.
 - A boat launch in Nutley is requesting dredging at its location because members of the RM 10.9 project have been using the Nutley boat launch. However as far as everyone involved in the project is aware, no one has been using the Nutley boat launch. CH2M Hill is going to check with OSI to determine which boat launch they have been using as part of this project.
- 1130-1230: Discussion between M Hoppe, S Budney, A Picunas, and J Wilkie regarding air monitoring issues.
 - Air Monitoring Downwind of Loaded Scows:



- On Wednesday afternoon, CH2M Hill will place a in-park mobile air monitoring unit in the weather station kennel adjacent to the Fire Dept boat launch. The mobile unit will sample for COPCs and H₂S.
- The in-river air monitoring unit will remain the upwind monitoring location
- PMS1 H₂S Issues:
 - If the mobile unit stationed in the weather station does not register any H₂S hits, PMS1 will be moved to the weather station.
 - Otherwise the PMS1 unit will remain in its current location and CH2M Hill will continue to report monitoring data to the website weekly.

Sampling and Analyses:

- Riverside County Park: The three (3) hi-volume and PQ100 samplers were operational throughout the day. The PM10 monitors were turned off and covered throughout the day due to significant precipitation. Precipitation wreaks havoc with PM10 units. No issues were observed.
 - The adjusted location of the northernmost air monitoring unit is still reporting multiple Hydrogen Sulfide readings (H₂S). See the “1130-1230” entry in the Meetings/Discussions section above for details.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day, no major issues observed.
- In-River Air Monitoring: unit remained upwind of dredging activities and operational throughout the day.
- Transect Surface Water Sampling: The second round of transect samples were collected from Buoys 3 – 4 today. Samples were collected at mid-depth in three (3) locations of a transect at each of the buoys. The locations were 50 ft off the east and west shorelines (based on Mean Low Water Elevation) and in the channel. In prior samplings the Northings and Eastings of each of the transect sampling locations were taken. OSI positioned the sampling boat to these Northings and Eastings to ensure samples were collected from same locations. The samples were collected between 0830 – 1000, during active dredging. Sampling protocol follows:
 - CH2M Hill cuts dedicated tubing for each sampling location. Platinum-cured silicone tubing used in peristaltic pump.
 - OSI lowers YSI and dedicated tubing to mid-depth and begins two (2) minute purge. The YSI collects field parameters readings (pH, temperature, turbidity, DO, salinity) every half second (i.e., two (2) readings/second)
 - After 2 minute purge, an aliquot of approximately seven (7) L is collected into a plastic carboy (1 carboy for each Buoy). Grab samples are collected (TSS, POC, DOC). Field readings are recorded in the log book
 - After completing the sampling, the carboys are brought back to the Field Office. A new length of platinum-cured silicone tubing is cut for each carboy and sample bottles are filled using a peristaltic pump. Total Hg and Dissolved Hg sample bottles are filled using the “Clean Hand” method.
- Intensive TSS (SSC) sampling was suspended today due to significant precipitation in the morning. The TSS (SSC) sampling will resume tomorrow.



Deviation from Monitoring Plan/Design	Description & Reason

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations.

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
John Rolfe	de maximis
Gary Foster	CH2M Hill
Mike Holsinger	CH2M Hill
James (air)	CH2M Hill
Jen Wilkie	CH2M Hill
Andy (water)	CH2M Hill
Rachel	CH2M Hill
Jeff (H&S)	CH2M Hill
Joe (QA)	CH2M Hill
Mike Hoppe	USEPA
Sharon Budney	CDM Smith
Amy Picunas	CDM Smith

Site Representative: Amy Picunas

Date: 13-August-2013

Representative's signature:



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 14-Aug-2013	Report #: lpr_rm_10.9_Aug-14
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Scattered Clouds	Mostly Cloudy
Temperature	63 F	75 F
Wind Direction	12.7 mph WNW	20.7 mph NNW

Description of work performed by contr. this report period:

- \$ 0800 – 0930: GLDD resumes dredging the southern end of RM 10.9 dredge area. Dredge cut starts on eastern bank and moves toward channel, moving north after each cut. Dredging stops at 0930 due to broken hydraulic line.
- Observed good seal on bucket most of the time. No decanting of water observed, however a release of sediment observed, due to woody debris. The woody debris is more prevalent closer to shore. No odors observed. Dredge cycle times are approximately 45-60 seconds.
 - Scow is drafting about 7 ft by 0930.
 - GLDD observed adjusting silt curtain to account for tidal shifts
 - Sediment being dredged is predominantly sandy clay, some woody debris observed. Observed that the clay percentage within the dredged sediment is not as prevalent today.
- \$ 1000: Per S Kaczmarek, bridge repairs at Bridge Street are underway. Estimating repairs will be completed by end of day Thursday and the first scow movements will be Thursday evening.
- \$ 1200-1400: GLDD resumes dredging and fills second of three scows currently on-site. The problem was due to a 90-degree fitting on one of the hydraulic lines.
- \$ 1400-1600: GLDD moors second scow near fire department boat launch and relocates remaining scow (low-profile scow) to dredge area.
- \$ 1600-1800: GLDD resumes dredging midway up southern dredge area and leaves third scow drifting at approximately 5.5 feet at end of day
- Observed good seal on bucket approximately 2/3 of the time. Noticeable decanting and



sediment release was observed when dredging near the shore. This area was particularly abundant with branches and other woody debris. Further from the shore the dredge material was comprised mostly of clay and fine sand. Dredging cycles were approximately 45-60 seconds. Turbidity curtains were observed in working order.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- Visited GLDD barge with S. Vaughn (EPA) and J. Rolfe (de maximis) to observe general setup of operations. Noted monitors (4) where real-time dredge bucket positioning information is shown. This is used by the on-site engineers, operator and other personnel to monitor the dredging operation. We were unable to witness dredging taking place (which detracted from the experience of seeing the software) while on the barge as GLDD were in the progress of switching out scows, however it was indicated that we could perhaps see this in the future.

Sampling and Analyses:

- Riverside County Park: The final set of Phase 1 air samples were collected this morning. Phase 2 sampling has started today; the PM10 monitors are the only equipment active today, with the exception of PCB monitoring at the southern PMS #1 station. There were issues with the PUF filter at this location and the filter was replaced. The sample is now being collected. No issues were observed with any of the monitoring stations.
 - CH2M Hill installed a Hydrogen Sulfide readings (H₂S) monitor in the weather station to determine if that area is also seeing H₂S hits.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day, no major issues observed.
- In-River Air Monitoring: unit remained upwind of dredging activities and operational throughout the day.
- Intensive TSS (SSC) sampling was completed this morning, 40 TSS samples were collected by CH2M Hill.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations.

Are atmospheric monitoring results acceptable? Yes.



Site Visitors	Representing
Stan Kaczmarek	de maximis
John Rolfe	de maximis
Gary Foster	CH2M Hill
Mike Holsinger	CH2M Hill
James Balas	CH2M Hill
Jen Wilkie	CH2M Hill
Andy Watson	CH2M Hill
Rachel Zajac-Fay	CH2M Hill
Jeff (H&S)	CH2M Hill
Joe (QA)	CH2M Hill
Stephanie Vaughn	USEPA
Mike Hoppe	USEPA
Ben Hammond	CDM Smith
Amy Picunas	CDM Smith

Site Representative: Amy Picunas and Ben Hammond

Date: 14-August-2013

Representative's signature:



August 14, 2013



August 14, 2013: Full scows



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 15-Aug-2013	Report #: lpr_rm_10.9_Aug-15
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Partly Cloudy	Mostly Cloudy
Temperature	64 F	72 F
Wind Direction	4.6 mph NW	20.7 mph NNW

Description of work performed by contr. this report period:

- \$ 0815 – 0930: GLDD resumes dredging the southern end of RM 10.9 dredge area. They have doubled back into a previously-unreachable area south of the picnic area, taking advantage of the higher tide.
- \$ 0930: GLDD rotated the barge 180° and returned north to where they previously left off.
- Some manipulation of the silt curtain was required to maneuver the dredge; no issues were noted.
- \$ 0930-1530: GLDD continued dredging, now north of the picnic area.
- Observed good seal on bucket in approximately 80-90% of passes. Occasionally the dredge bucket would fail to close entirely, apparently due to too much volume in the bucket, causing minor amounts of sediment to escape. No turbidity plumes were observed. Dredge cycle times are approximately 45-60 seconds. Silt curtains were observed in working order.
 - Sediment being dredged is predominantly sandy clay, with more coarse material (sand) at locations further from the shore.
 - Scow is drafting about 9 ft by 1515, at which point GLDD begins cleaning up for the day. There will be no dredging tomorrow.
- \$ 1500: Per J Rolfe, bridge repairs at Bridge Street are complete. The current plan is to move two scows tonight and unload them at Clean Earth tomorrow. This was confirmed by S. Kaczmarek. Furthermore there will be at least one empty scow back on Saturday to continue dredging.



Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

Sampling and Analyses:

- Riverside County Park: Phase 2 sampling is ongoing; 24-hour composite samples are being collected for Dioxin analysis only today. No issues were observed with any of the monitoring stations.
 - Monitoring of H₂S was implemented recently at the weather station to investigate the unusual hits at PMS#1. It was suspected that the hits were due to the nearby sewer and not associated with the project. This assumption was confirmed by the results from the weather station, and CH2M Hill received permission from S. Vaughn (EPA) to turn off the H₂S monitoring at PMS#1. The weather station will continue to monitor H₂S concentrations at the northern edge of the southern dredge area.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day, no major issues observed. There have been issues with Buoy 1 reporting to the project website. The other four give updated reading every 15 minutes, but the outstanding buoy updates sporadically every few hours. This was mentioned to GLDD yesterday and they confirmed that they are receiving up-to-date readings (that is, the buoy is functioning properly) and that it is just an error with the website. Today they swapped Buoys 1 and 5, and now Buoy 5 is giving sporadic readings. It is unclear why they would do this if it is only a website issue.
- In-River Air Monitoring: unit remained upwind of dredging activities and operational throughout the day.
 - CH2M Hill moved the in-river upwind monitoring station slightly, as it was too near the western shore of the river.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations.

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
John Rolfe	de maximis
Gary Foster	CH2M Hill
Mike Holsinger	CH2M Hill



James Balas	CH2M Hill
Jen Wilkie	CH2M Hill
Andy Watson	CH2M Hill
Rachel Zajac-Fay	CH2M Hill
Jeff (H&S)	CH2M Hill
Joe (QA)	CH2M Hill
Ben Hammond	CDM Smith

Site Representative: Ben Hammond

Date: 15-August-2013

Representative's signature:



August 15, 2013: Full bucket



August 15, 2013: In-River Air Monitor



August 15, 2013: Silt Curtain Adjustment



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 16-Aug-2013	Report #: lpr_rm_10.9_Aug-16
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	12:00 PM
Weather	Mostly Cloudy	Scattered Clouds
Temperature	68 F	78 F
Wind Direction	Calm	5.8 mph W

Description of work performed by contr. this report period:

- 0945 – 1130: Visited Clean Earth facility in Kearny, NJ to observe offloading and processing of dredged material. Was escorted by John Rolfe during site visit.
 - Two scows (including the low-profile scow) arrived at Clean Earth last night. By 0945 the low-profile scow was dewatered and more than half of its contents were offloaded and processed. A bucket operator was continuing on the first scow while several Clean Earth personnel worked on dewatering the second scow.
 - The operation was generally tidy; material was being transferred from the scow to the size separator without spilling out onto the property. The water transmitted during the dewatering operation was kept well-contained. Some standing water was observed in the vicinity of the dewatering pumps/hoses but it is water from the adjacent river – when they need to disconnect various hoses they first flush them with river water.
 - The consistency of the stabilized material is satisfactory (not too wet); it will not flow out across the concrete apron. There was no significant dust generation caused by facility operations. Clean Earth are adding Portland cement at a 10% weight ratio but this could be fine-tuned in the future.
 - Two large tree trunks and a couple cubic yards of large debris (including some concrete pieces) were observed in the offloaded material. They were sorted out by the size separator. There is not much large material to be sorted/processed.
- Per J Rolfe, one or more scows will be returned to the dredge site tonight in preparation for



dredging on Saturday. Today was a maintenance day for GLDD. They performed general upkeep on the barge and the silt curtains.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

Sampling and Analyses:

- There are no sampling/analysis issues to report as dredging did not occur today. Will return to Riverside Park tomorrow to observe collection of air samples and continued monitoring of water quality in vicinity of dredging.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None.

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe Mike Holsinger Chris Thorpe Ben Hammond	de maximis CH2M Hill Clean Earth CDM Smith

Site Representative: Ben Hammond

Date: 16-August-2013

Representative's signature:



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 17-Aug-2013	Report #: lpr_rm_10.9_Aug-17
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Mostly Cloudy	Mostly Cloudy
Temperature	66 F	80 F
Wind Direction	5.8 mph ENE	6.9 mph S

Description of work performed by contr. this report period:

- 0800 – 0900: GLDD resumed dredging at 0802.
 - Poor seals on the dredge bucket and frequent loss of sediment (pieces of clay) were observed during the first hour. This has been typical when dredging near the riverbank.
 - All three scows are at the dredge site today. The low-profile scow returned from Clean Earth nearly empty and the deep scow returned with 2-2.5 feet of sediment still in the bottom. High tide at Clean Earth prevented removal of all of the sediment from the deep scow. The other deep scow (still full from earlier this week) remains moored here.
- 0900-1600: GLDD continued dredging and filled the low-profile scow. The scow is drifting at approximately 9.5 feet, moored south of the current dredge area at the end of the day. Dredging progressed smoothly today. Very little sediment release was observed after the first hour. The silt curtains remain in proper condition. There have been no visible turbidity plumes. Dredge cycles are approximately 50-60 seconds. Dredged material has been mostly clay with some sand.
- A downriver barge movement is scheduled for early Sunday morning. The low-profile scow and the already-full deep scow will be transported to Clean Earth. Dredging will resume on Monday with the half-full deep scow that was returned today. Per S. Kaczmarek, OSI will likely perform a bathymetry survey of the completed area during the afternoon.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer: None



Sampling and Analyses:

- Riverside County Park: No 24-hour composite samples are being collected today. Composite sampling will continue on Monday (PCBs, Dioxins, Mercury and PM10). Real-time monitoring of VOCs, H₂S and dust is ongoing. Noise monitoring is ongoing as well.
 - Monitoring of H₂S was implemented recently at the weather station to investigate the unusual hits at PMS#1, and subsequently the weather station replaced PMS#1 as the H₂S monitoring location. There have been issues today with the H₂S monitor at the weather station. H₂S monitoring has been returned to PMS#1 while CH2M Hill troubleshoots the weather station.
 - In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day. All five Buoys are functioning correctly and reporting to the monitoring website. Turbidity values above 50 NTU were observed at Buoy 4 throughout the day. They appear to be unrelated to the site, as turbidity values at Buoy 3 remained below 10 NTU. The source of the turbidity hits at Buoy 4 is unclear, as there is no active construction at the Route 3 bridge today. The turbidity differential between Buoys 2 and 3 occasionally exceeded 30 NTU but never at the frequency needed to trigger an investigation.
- In-River Air Monitoring: unit remained upwind of dredging activities and operational throughout the day.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations.

Are atmospheric monitoring results acceptable? Yes.



Site Visitors	Representing
Stan Kaczmarek	de maximis
Gary Foster	CH2M Hill
Mike Holsinger	CH2M Hill
Rachel Zajac-Fay	CH2M Hill
Taylor	CH2M Hill
Jeff (H&S)	CH2M Hill
Joe (QA)	CH2M Hill
Ben Hammond	CDM Smith

Site Representative: Ben Hammond

Date: 17-August-2013

Representative's signature:



August 17, 2013 Dredging ongoing



August 17, 2013: Full scow at the end of the day



August 17, 2013: Scows moored near fire department boat launch



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 19-Aug-2013	Report #: lpr_rm_10.9_Aug-19
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Mostly Cloudy	Overcast
Temperature	67 F	79 F
Wind Direction	5.8 mph WSW	12.7 mph WSW

Description of work performed by contr. this report period:

- 0800 – 1300: GLDD resumed dredging in the southern end of RM10.9 dredge area. GLDD is focusing on remaining high spots. Dredging was officially suspended at 1300 due to low tide. The scow was beached on the river bottom until 1700.
 - Observed good seal on the dredge bucket. Very little loss of sediment occurred.
 - Only one scow was at the dredge site today, one of the deep scows. The low-profile scow and the other deep scow were being offloaded at Clean Earth today.
- 1700-: GLDD resumed dredging any remaining high spots. The scow is drafting at approximately 9 feet at the end of the day. The silt curtains remain in proper condition. There have been no visible turbidity plumes. Dredge cycles are approximately 50-60 seconds. Dredged material has been mostly sandy clay, with some woody debris.
- An upriver barge movement is scheduled for this evening. The two scows at Clean Earth are expected to be transported upriver to the RM 10.9 dredge area.
- OSI will perform a bathymetry survey of the completed area after GLDD has completed dredging. It is anticipated the bathymetry survey will be conducted and submitted for review early tomorrow.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

Sampling and Analyses:



- Riverside County Park: Composite sampling resumed today (PCBs, Dioxins, Mercury and PM10). Real-time monitoring of VOCs, H₂S and dust is ongoing. Noise monitoring is ongoing as well.
 - Monitoring of H₂S was implemented recently at the weather station to investigate the unusual hits at PMS#1, and subsequently the weather station replaced PMS#1 as the H₂S monitoring location. Due to earlier detections of H₂S at the weather station, H₂S monitoring has been returned to PMS#1 while CH2M Hill troubleshoots the weather station.
 - In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day. All five Buoys are functioning correctly and reporting to the monitoring website. No issues were observed.
- In-River Air Monitoring: unit remained upwind of dredging activities and operational throughout the day.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations.

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Rachel Zajac-Fay	CH2M Hill
Andy Watson	CH2M Hill
Taylor	CH2M Hill
Jeff (H&S)	CH2M Hill
Joe (QA)	CH2M Hill
Stephanie Vaughn	USEPA
Amy Picunas	CDM Smith

Site Representative: Amy Picunas

Date: 19-August-2013

Representative's signature:



August 19 2013: Shoreline cuts completed this morning



August 19 2013: Shoreline cuts completed this morning



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 20-Aug-2013	Report #: lpr_rm_10.9_Aug-20
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Partly Cloudy	Mostly Cloudy
Temperature	70 F	87 F
Wind Direction	5.8 mph W	8.1 mph NW

Description of work performed by contr. this report period:

- 0800 – 1500: GLDD resumed dredging any remaining high spots in Section 1, the southern end of the RM 10.9 dredge area. The silt curtains remain in proper condition. There have been no visible turbidity plumes. Dredge cycles are approximately 50-60 seconds. Dredged material has been mostly sandy clay, with some woody debris.
 - The high-profile scow loaded yesterday was switched out by 0930, drafting at approximately 9.5 feet.
 - The low-profile scow was then loaded throughout the day, drafting approximately 9 ft by 1500.
 - Observed good seal on the dredge bucket, excluding times when the dredge bucket handled debris. Some loss of sediment was observed when debris was handled.
 - PCB odor, with a slight metallic smell was observed throughout the afternoon.
- The second high-profile scow (offloaded at Clean Earth yesterday) was moored across from the fire department boat launch. The second high-profile scow was drafting 3.5 feet, indicating it was almost completely offloaded yesterday.
- A downriver barge movement is scheduled for this evening. Two loaded scows will be transported to Clean Earth for offloading tomorrow.
- OSI will perform a bathymetry survey of the completed area after GLDD has completed dredging. It is anticipated the bathymetry survey will be conducted and submitted for review tomorrow.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:



- 1000, Weekly Progress Meeting: personnel from de maximis, GLDD, CH2M Hill, Clean Earth, USEPA, CDM Smith present. Items discussed:
 - Progress of Dredging:
 - approx 2,250 cy of sediment dredged through end of day Saturday 17 August 2013,
 - approx 650 tons of sediment plus 10% Portland cement has been stabilized at Clean Earth facility. The stabilized sediment will be loaded onto trucks starting tomorrow,
 - 138,000 gallons of dredge decant water is in fracture tanks at the Clean Earth facility. Clean Harbors will be using vac trucks to transport the water to offsite treatment.
 - Monitoring Activities:
 - in-river turbidity monitoring results (no trigger or action levels met),
 - transect and TSS surface water sampling activities conducted (YSI turbidity readings correlated well with the in-river turbidity monitoring results),
 - real-time air monitoring results are showing orders of magnitude below Residential Standards,
 - PMS1 (northernmost air monitoring station) still seeing periodic H₂S hits,
 - Phase 2 COPC monitoring ongoing, will be completed later this week.
 - Schedule moving forward:
 - Two dump scows were offloaded at Clean Earth and transported to RM 10.9 dredge site yesterday.
 - Anticipate transporting 2 loaded scows to Clean Earth tonight.
 - Wednesday, Clean Earth will offload the 2 scows and they will be transported back to RM 10.9.
 - Clean Harbor will be transporting dredge decant water from the Clean Earth frac tanks to offsite disposal via vac trucks. Anticipate that work to start Wed-Thurs this week.
 - Interactions with Public:
 - No major issues.
- 1030: Discussion between M Hoppe, S Kaczmarek, A Picunas, and A Watson regarding timing of moving PMS2 air monitor to the north end of the little league fields.
 - The Air Monitoring Plan does not specifically mention when PMS2 should be moved. All agree the PMS2 unit will move north once GLDD has moved the dredge barge north of the “No Dredge Zone” (utility clearance).
- 1100: Discussion between S Kaczmarek and A Picunas regarding scow offloading issues at Clean Earth. The problem is a number of scows have recently arrived back from Clean Earth with a large amount of sediment remaining (>1 ft).
 - Per Stan, Clean Earth has cut windows at the stern end of the splash guards of the high-profile scows. This will aid in removal of the decant water from the stern of these scows (the scows came equipped with a port in the bow for the removal of decant water at the bow). The windows should help with pump suction and speed up the process.
 - Clean Earth will time removal of decant water and offloading of sediment based on tidal patterns. The high-profile scows are difficult to offload during high tide: the scow bumps up against the splash guards at Clean Earth and the excavator operator cannot see into the scow



during high tide. Clean Earth will now only offload the high-profile scows during slack and low tides.

Sampling and Analyses:

- Riverside County Park: Composite sampling resumed today (PCBs, Dioxins, Mercury and PM10). Real-time monitoring of VOCs, H2S and dust is ongoing. Noise monitoring is ongoing as well.
 - M Hoppe observed the sampling port of the mobile PM10 monitor was bent. S Kaczmarek was informed and the port was fixed by the end of the day.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day. All five Buoys are functioning correctly and reporting to the monitoring website. No issues were observed.
- In-River Air Monitoring: unit remained upwind of dredging activities and operational throughout the day.
- Transect Surface Water Sampling: The second round of transect samples were collected from Buoys 1 – 2 today. Samples were collected at mid-depth in three (3) locations of a transect at each of the buoys. The locations were 50 ft off the east and west shorelines (based on Mean Low Water Elevation) and in the channel. In prior samplings the Northings and Eastings of each of the transect sampling locations were taken. OSI positioned the sampling boat to these Northings and Eastings to ensure samples were collected from same locations. The samples were collected between 0830 – 1000, during active dredging.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations.

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Rachel Zajac-Fay	CH2M Hill
Andy Watson	CH2M Hill



Nicole	CH2M Hill
Taylor	CH2M Hill
Jeff (H&S)	CH2M Hill
Joe (QA)	CH2M Hill
Michael Hoppe	USEPA
Amy Picunas	CDM Smith

Site Representative: Amy Picunas

Date: 20-August-2013

Representative's signature:



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 21-Aug-2013	Report #: lpr_rm_10.9_Aug-21
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Scattered Clouds
Temperature	73 F	90 F
Wind Direction	3.5 mph Variable	9.2 mph WNW

Description of work performed by contr. this report period:

- 0800 – 1630: GLDD resumed dredging remaining high spots in Section 1, the southern end of the RM 10.9 dredge area. There have been no visible turbidity plumes. Dredge cycles are approximately 50-60 seconds. Dredged material has been mostly sandy clay, with some woody debris and rocks closer to shore.
 - Individual panels of the silt curtain came loose during the morning (0830) and again in the afternoon (1530), during periods of high tidal currents. GLDD temporarily stopped dredging until the panels were reattached to the silt curtain.
 - One of the high profile scows was being loaded, drafting about 5 ft.
 - Observed good seal on the dredge bucket, excluding times when the dredge bucket handled debris. Some loss of sediment was observed when debris was handled.
 - Personnel from USEPA, NJDEP, USACE, de maximis, CH2M Hill, and CDM Smith were onsite at Riverside Park for a site visit.
- 1400 – 1500: A site visit to Clean Earth was conducted today. Personnel from USEPA, USACE, de maximis, Clean Earth and CDM Smith were present.
 - By 1400, the low-profile scow was already dewatered and the sediment was being offloaded by the Komatsu PC 1250 into the size separator.
 - Observed large debris, primarily wood debris (branches and tree trunks).
 - Per K Sykes, Clean Earth is adding Portland cement at 10%. It takes about 2 days for the sediment to sufficiently stabilize for offsite disposal.



- The high-profile scow at Clean Earth was being dewatered at 1400. Per K Sykes, the windows cut into the high profile scow splash guards have assisted in dewatering.
- Clean Earth has set up three (3) bays for housing sediment:
 - o The sediment being offloaded from the low-profile scow today is being house in the center bay.
 - o Sediment that was offloaded and stabilized on Monday August 19th was housed in the lefthand bay (when facing the Hackensack River). The stabilized sediment was loaded onto trucks earlier today.
- One of the high-profile scows and the low-profile scow were transported downriver to Clean Earth for offloading today.
- An upriver barge movement is scheduled for this evening. Two empty scows will be transported to the RM10.9 dredge area for loading tomorrow.
- OSI will perform a bathymetry survey of the completed area after GLDD has completed dredging. It is anticipated the bathymetry survey will be conducted and submitted for review tomorrow.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

Sampling and Analyses:

- Riverside County Park: Composite sampling resumed today (PCBs, Dioxins, Mercury and PM10). Real-time monitoring of VOCs, H2S and dust is ongoing. Noise monitoring is ongoing as well.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day. All five Buoys are functioning correctly and reporting to the monitoring website. No issues were observed.
- In-River Air Monitoring: unit remained upwind of dredging activities and operational throughout the day.
- Transect Surface Water Sampling: The second round of transect samples were collected from Buoys 3 – 4 today. Samples were collected at mid-depth in three (3) locations of a transect at each of the buoys. The locations were 50 ft off the east and west shorelines (based on Mean Low Water Elevation) and in the channel. In prior samplings the Northings and Eastings of each of the transect sampling locations were taken. OSI positioned the sampling boat to these Northings and Eastings to ensure samples were collected from same locations. The samples were collected between 0900 – 1100, during active dredging.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

**Health & Safety:**

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations.

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Rachel Zajac-Fay	CH2M Hill
Andy Watson	CH2M Hill
Nicole	CH2M Hill
Taylor	CH2M Hill
Jeff (H&S)	CH2M Hill
Joe (QA)	CH2M Hill
Stephanie Vaughn	USEPA
Michael Hoppe	USEPA
Beth Franklin	USACE
Sharon Budney	CDM Smith
Meredith Passaro	CDM Smith
Amy Picunas	CDM Smith

Site Representative: Amy Picunas and Meredith Passaro

Date: 21-August-2013

Representative's signature:



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 22-Aug-2013	Report #: lpr_rm_10.9_Aug-22
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Overcast	Scattered Clouds
Temperature	75 F	77 F
Wind Direction	5 mph SW	10 mph SSW

Description of work performed by contr. this report period:

- 0730 – 0830: No dredging activity was starting to take place. Crew members were present on the barge, but not beginning work. The silt curtain was still in place.
 - The low profile scow from the processing facility is back onsite and was anchored next to the onsite high profile scow.
 - The high profile scow was drafting from what looked like between 7-8 ft. The scale was obscured by a tug boat and therefore was difficult to get the exact drafting depth.
- 0900-1100: Large thunderstorm took place. Work was shut down for lightning and flood warnings were released within the surrounding areas.
- 1100-1115: Back onsite at the Riverfront Park. Observed GLDD removing the middle section of the silt curtain. Both end pieces of the silt curtain remained intact and in place.
 - OSI was conducting the bathymetry survey of Area 1. Stan confirmed he would pass along when he received the completed survey. Once the survey is reviewed, it will dictate any remaining work in Area 1 or whether we will be moving on to Area 2.
 - It was later confirmed by both John and Stan that the middle section of the curtain was not being moved, but was being replaced by new curtain. The silt curtain was damaged by floating debris from high tidal flows the previous day.
 - Personnel from USEPA, de maximis, CH2M Hill, and CDM Smith were onsite at Riverside Park.
- 1400 – 1600: Spoke with John from de maximis who had just come back from the Clean Earth



Facility. Unloading the high profile scow was put on hold due to high water. 9 water trucks were filled and left the site for Baltimore and 19 out of the 31 trucks were filled with sediment.

- GLDD was collecting the last of the old silt curtain. The replacement silt curtain was fully in place.
- No further dredge work was to take place today.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer: None Today.

Sampling and Analyses:

- Riverside County Park: No sampling took place today
- Real-time monitoring of VOCs, H2S and dust did not take place today due to the weather. Noise monitoring is ongoing as well.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day. All five Buoys are functioning correctly and reporting to the monitoring website. Buoy's 2, 3, and 5 all experience elevated turbidity levels, however this is most likely due to the wet weather experienced most of the day. No dredging operations took place today.
- In-River Air Monitoring: unit remained upwind of dredging activities, but was not operational due to the weather.
- Transect Surface Water Sampling: No sampling took place today.
- Bathymetry Survey: OSI conducted the Bathy survey of Area 1 this morning.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: none

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
John Rolfe	de maximis
Mike Holsinger	CH2M Hill



Andy Watson	CH2M Hill
Taylor	CH2M Hill
Jeff (H&S)	CH2M Hill
Joe (QA)	CH2M Hill
Michael Hoppe	USEPA
Meredith Passaro	CDM Smith
Amy Picunas	CDM Smith

Site Representative: Amy Picunas and Meredith Passaro

Date: 22-August-2013

Representative's signature:



August 22, 2013 Bathymetry survey in Area 1



August 22, 2013: Damaged silt curtain collected on barge



August 22, 2013: Anchored scows



August 22, 2013: Replacement silt curtain in place



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 23-Aug-2013	Report #: lpr_rm_10.9_Aug-23
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Scattered Clouds
Temperature	73 F	77 F
Wind Direction	7 mph NNW	8 mph N

Description of work performed by contr. this report period:

- 0800 – 0830: Dredging in progress.
 - Area being dredged is in Area 2 instead of Area 1.
 - Cycle times are ranging between 60 – 90 seconds.
 - Dredged material is being deposited in “Chubby,” the low profile scow. Unable to see exact draft due to the scale being obscured by tug boats and the dredge barge. Estimate to be over half full.
 - A Clean seal is observed during dredging. The area currently being worked in is more towards the middle of the river with very little wood/construction debris present, which allows for a good seal.
- 0900- 12:45: Stan of de maximis is onsite and relayed the following information:
 - Cuts are currently being made in Section 5 of Area 2. This is due to the fact that the dredge unit can work here without moving the silt curtain from its current location. The survey of Area 1 is still not completed and the area has not been cleared.
 - The last high profile scow from Clean Earth arrived last night and no sediment is being processed at Clean Earth today. It was observed that the scow was returned with sediment in it and was drafting between 5-6 ft.
 - GLDD starting dredging for an hour last night from 5:15 – 6:15 in the same area observed this morning.
 - Observed Hill representative onsite completing the calibration of the dust monitoring within the



mobile air monitoring unit. Unit was successfully calibrated.

- PMS#1, 2, and 3 were all visibly in good condition and running.
- The in river air monitoring station appeared to be in good condition and it was later confirmed during the boat trip that it was also running.
- Weather station was in visibly good condition and running.
- 1215: Low profile scow was filled and switched out with the high profile scow drafting approximately 6 ft. Crew positioned silt curtain along the scow before proceeding with dredge activities.
- 1245 - 1330: Was taken out on the boat by Construction Manager Roy in order to get a better view of the ongoing dredging activities:
 - It should be noted that there was a large amount of surface debris/trash on the river today which can be attributed to some of the CSO's upriver from the wet weather event yesterday.
 - When on the river, the high profile scow was found to be drafting 7 feet. Roy informed me that they will be filling the scow to 9 feet today and then will stop dredging for the day.
 - Both the full high profile scow and the full low profile scow will be mobilized to Clean Earth this evening.
 - Was able to confirm the position of the silt curtain directly alongside of the scow collecting dredge material.
 - No sheens or odors were observed during the active dredging from the on water position. Seals were still observed to be clean.
- 1330 – 1500: Arrived back on shore and dredge activities continued.
- 1500 – 1545: Dredge activities have stopped. Scow is drafting close to 9 ft. It looks to be between 8.5 and 9 ft. Low tide has also set in and the mud flats are completely exposed.
 - Clamshell was placed on the barge and the operator has left his post. It appears to be the end of the dredging today.
 - Stan arrived back onsite and received a call from Roy confirming that dredge activities for the day were completed and that the high profile scow is drafting 8.5 ft.
 - End of day.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer: None Today.

Sampling and Analyses:

- Riverside County Park: Composite sampling resumed today (PCBs, Dioxins, Mercury and PM10). Real-time monitoring of VOCs, H2S and dust is ongoing. Noise monitoring is ongoing as well.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day. All five Buoys are functioning correctly and reporting to the monitoring website. Buoy's 2, 4, and 5 all experience elevated turbidity levels, however this is most likely due to debris/trash on the river from the wet weather event yesterday.
- In-River Air Monitoring: unit remained upwind of dredging activities and operational throughout the day.



- Transect Surface Water Sampling: No sampling took place today.

Deviation from Monitoring Plan/Design	Description & Reason
Area 2 Dredging	Area 1 has still not been cleared and dredging has moved on to Area 2. This was done to keep making progress since the section the crew is making cuts within Area 2 allowed them to keep the silt curtain in the exact same position it was in for Area 1. The lost time in waiting for the completed survey would've pushed back completion of the project on time.

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: none

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Roy	CH2M Hill
Andy Watson	CH2M Hill
Taylor	CH2M Hill
Jeff (H&S)	CH2M Hill
Joe (QA)	CH2M Hill
Meredith Passaro	CDM Smith

Site Representative: Meredith Passaro

Date: 22-August-2013

Representative's signature:



August 23, 2013 Dredging Area 2 with silt curtain still in place from Area 1 dredging



August 23, 2013: Observed trash and debris on river today



August 23, 2013: Good seal observed on dredge bucket



August 23, 2013: Low-profile scow getting switched out



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 24-Aug-2013	Report #: lpr_rm_10.9_Aug-24
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Scattered Clouds
Temperature	65 F	77 F
Wind Direction	8 mph NNW	8 mph N

Description of work performed by contr. this report period:

- 0750 – 1100: Dredging has not begun today.
 - Both High and low profile scows are offsite at Clean Earth facility. Other high profile scow is in place beside dredge barge and is drafting approximately 4 ft., which is the same as the day before.
 - Silt curtain is in same position and is intact.
 - PMS#1, PMS#2, PMS#3, Mobil air monitoring station, and weather station are all in good condition and running.
 - In river air monitoring station appears to be in good condition and is in proper position.
 - Observed same boat as a couple days ago in Area 1 moving back and forth in lines and completing what looks to be the survey of Area 1. Spoke with John who said we would not have the survey before Monday.
 - 10:40 – John Rolfe of de maximis is onsite. He came from the Clean Earth facility where he said the high profile scow was completely unloaded and the low profile scow was being unloaded. Also spoke with Roy of Hill who stated that dredging had not started due to strong tidal flows and being able to keep in the silt curtain secured. Once stabilized dredging would begin.
- 1100 - 1200: Traveled to Clean Earth facility.
 - Observed the low profile scow being unloaded. Little to no slopping of material was observed and was cleanly transferred from scow to the hopper.



- Observed material being transferred into the Intermodal cars from onsite piles. Material was transferred efficiently into the trucks.
- Spoke with onsite Hill representative, another 26 trucks are expected to be filled with sediment material and another 10 water trucks are expected to be shipped out to Baltimore.
- Noticed a lot of dust circulating due to the weather. Observed an onsite water truck that appeared to have circulated the facility before arrival onsite due to wet areas on the ground. Water truck started making another circulation of the facility when leaving the facility and started at the entrance. Would recommend setting up onsite air monitoring for future work.
- 1200 - 1600: Dredging activities have started upon reaching the Riverside Park.
 - Dredge has moved back to the shoreline to take advantage of high tide. Faint odor of PCB's is observed from dredge activities. Dredge is back near shoreline within Area 1.
 - Discussed with John about high turbidity readings from Buoy #4 which have been high all morning when dredge activities were not occurring.
 - 1330: High profile scow is drafting 5 ft. and cycle times range from 60-90 seconds.
 - 1500: Dredging activities have stopped; water level is beginning to draft. Scow is drafting 5.5-6 feet. John Rolfe is onsite and discussed the following:
 - Roy from Hill went to investigate buoy #4 and found it to be surrounded with floating debris. He cleaned around it and readings have started to go down.
 - Clean Earth is going to make sure that they have continuous water trucks circulating the facility for dust control.
 - At Clean Earth a total of 11 water trucks and 26 sediment trucks left the facility today. Both scows were emptied and will be leaving the facility either tonight or Sunday and will be onsite for work on Monday.
 - 1512: Dredge barge and scow were stuck due to water level dropping for low tide. Both were successfully moved. Dredging will begin once silt curtain is in proper place.
 - 1525: Dredging begins again. Having a more difficult time keeping the bucket closed in the area of the river currently being dredged due to subsurface debris.
 - 1600: M. Passaro – Spoke with Roy, dredging will continue until 1830 tonight. Scow is currently drafting 6 feet. Will check draft on Monday morning.
 - End of day.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer: None Today.

Sampling and Analyses:

- Riverside County Park: Composite sampling resumed today (PCBs, Dioxins, Mercury and PM10). Real-time monitoring of VOCs, H2S and dust is ongoing. Noise monitoring is ongoing as well.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day. All five Buoys are functioning correctly and reporting to the monitoring website. Buoy 4 experienced elevated turbidity levels all day due to floating debris.
- In-River Air Monitoring: unit remained upwind of dredging activities and operational throughout the day.



- Transect Surface Water Sampling: No sampling took place today.

Deviation from Monitoring Plan/Design	Description & Reason
NA	

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: none

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike	CH2M Hill
Roy	CH2M Hill
Taylor	CH2M Hill
Jeff (H&S)	CH2M Hill
Joe (QA)	CH2M Hill
Meredith Passaro	CDM Smith

Site Representative: Meredith Passaro

Date: 24-August-2013

Representative's signature:



August 24, 2013 Shoreline



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 26-Aug-2013	Report #: lpr_rm_10.9_Aug-26
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Overcast	Scattered Clouds
Temperature	70 F	77 F
Wind Direction	8 mph SSW	8 mph N

Description of work performed by contr. this report period:

- 0810 – 0920: Dredging activities have not begun today.
 - Both High and low profile scows are back onsite from Clean Earth Facility.
 - Silt curtain is in same position and is intact.
 - Mobile air monitoring station has been moved to the water's edge. (See picture)
 - Scow and dredge barge are currently being repositioned back to section 5 of Area 2. High profile scow is the same one from Saturday and is still drafting 6 ft. No further dredging occurred after leaving site on Saturday. Later confirmed with Stan that the water level had dropped too far by 4 pm to continue dredging.
- 0920 - 1250: Dredging Activity begins for the day.
 - Was later told by de maximis personnel that dredging did not begin on time due to issues with one of the winches on the barge.
 - Clean seal is observed during dredging. Material appears to be mostly sand from observation of material with little to no cohesion when unloaded into the Scow.
 - Cycle times are ranging from 60-90 seconds.
 - 1043: Stan from De maximis is onsite. Discussed earlier that buoy #5 should be moved if dredging is to continue in Area 2. However, Stan informed that the crew will be returning to Area 1 tomorrow and that they have not cleared their survey yet.
 - 1232: Material being dredged is now approximately 70-80% clay from observations of the unloaded material.



- Dredging has stopped. Scow is drafting approximately 8 ft.
- 1305 - 1525: Dredging activities have started upon reaching the Riverside Park.
 - 1330: Observed the Survey boat making another pass along the shoreline, will need to confirm with John or Stan later on.
 - 1420: High profile scow is drafting approximately 9 ft in the center. Dredge unit is rinsing scow and tug is coming to relocate scow. Low profile scow is being pulled into place alongside of dredge unit and silt curtain is being repositioned.
 - 1440: John Rolfe of de maximis is onsite and discussed the following:
 - Does not currently have an answer for when we will be receiving the Area 1 survey.
 - At the process facility today 8 water trucks were filled and 29 sediment trucks were loaded.
- 1525 – 1640: Dredging operation continues as above.
 - 1555: Stan from de maximis stopped by the park to discuss the following:
 - Stated he had seen part of the completed survey and we will know tomorrow during the meeting when it will be finalized.
 - Part of the issue with the survey is identifying where the rock outcropping lies along the shoreline of Area 1. There will be a meeting at 8 am tomorrow to discuss possible alternatives since the rock is above the target dredge depth and also making it difficult to access other areas that need to be dredged further along the shoreline.
 - 1622: Low profile scow is currently drafting 5 ft.
 - 1630: Tried to get pictures of shoreline as tide was getting lower, tomorrow will consist of the meeting at 8 am at the Riverside Park, the 10am Weekly progress meeting, a trip to the railyard, and also the transect sampling along Buoy 2.
 - 1640: End of day. Will check draft of low profile scow in the morning to gage how much further was completed.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer: None Today.

Sampling and Analyses:

- Riverside County Park: Composite sampling today consisted only of Mercury sampling. From now on different samples will be taken each day for PCBs and Dioxins. Real-time monitoring of VOCs, H2S and dust is ongoing. Noise monitoring is ongoing as well.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day. All five Buoys are functioning correctly and reporting to the monitoring website. Buoy 3 experienced a momentary spike during the day, but has since returned to normal levels.
- In-River Air Monitoring: unit remained upwind of dredging activities and operational throughout the day.
- Transect Surface Water Sampling: No sampling took place today.



Deviation from Monitoring Plan/Design	Description & Reason

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: none

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Stan	de maximis
Mike	CH2M Hill
Roy	CH2M Hill
Taylor	CH2M Hill
Jeff (H&S)	CH2M Hill
Joe (QA)	CH2M Hill
Meredith Passaro	CDM Smith

Site Representative: Meredith Passaro

Date: 26-August-2013

Representative's signature:



August 26, 2013 Shoreline



August 26, 2013: Shoreline



August 26, 2013: Shoreline



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 27-Aug-2013	Report #: lpr_rm_10.9_Aug-27
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Overcast	Scattered Clouds
Temperature	72 F	86 F
Wind Direction	11 mph W	5 mph NW

Description of work performed by contr. this report period:

- 0800 - 0845: Meeting to discuss Shoreline Issues
 - Please refer to Meetings section for notes.
- 0855 – 0935: Dredge barge and scow are being moved back down into Area 1. The preliminary survey of Area 1 was completed Monday night and according to the survey there are a couple of areas that need to be re-dredged. Silt fence is also being moved into proper place.
 - 2 Scows went to Clean Earth Last night. The low profile scow was not completely full.
 - 0925: Observed what appeared to be a sheen on the water surface in the 4T shoreline area observed this morning. Was still able to get to water's edge and drag a stick through it, reacted as a petroleum based sheen. Was growing larger as tide was lapping against the shore. Have not observed this onsite before. Sheen was still of minimal size and did not coalesce. Spoke with Frank on the phone about it and then later after the progress meeting with Mike Hoppe (EPA) and Stan.
 - 0935: M. Passaro offsite for Weekly Progress Meeting
- 0935- 1120: Meetings/Discussions at Field Office, refer to meeting section for notes.
- 1120 – 1300: Dredging operation is in progress.
 - Moved back down to Area 1 to clean up some of the areas that failed the initial survey.
 - Clean seal is observed on the environmental bucket while onsite.
 - Scow is drafting between 5.5-6 in the front.
 - Cycle time is between 50-60 seconds.
 - Material is mostly sand and water upon observation of the dumping into the scow.



- 1315-1612: Composite Surface Water Sampling, refer to sampling section for details.
- 1612-1730: M. Passaro onsite at Riverside Park
 - Dredging continues and barge is currently drafting 7 ft. End of day consisted of relocating the barge to the middle of the river and also readjusting the silt curtain.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 0800 – 0845: Shoreline Matrix Discussion: Attendees – Chris and Todd King (GLDD), Gary Foster (CH2M Hill), John and Stan (De Maximis), Meredith Passaro (CDM Smith)
 - GLDD – Productivity issues along the shoreline, it's taking between 4-10+ for the cleanup cuts in the 4T area. The shoreline is made up of a shelf of fractured rock as well as dense clay and sand (please see attached pictures). The total productivity of Saturday alone was only 65 yrd³, they only focused on the shoreline that day.
 - Discussed possibility of moving onto Area 2 and coming back to shoreline once a resolution is reached. This will be discussed at the Weekly meeting.
 - The extent of the shoreline issues are unknown at this time, which is another reason to start to move into Area 2.
 - Spoke with Stephanie and Frank Tsang before the weekly meeting to update them on the morning's discussion.
- 1000 – 1030: Weekly Progress Meeting: personnel from de maximis, GLDD, CH2M Hill, Clean Earth, USEPA, CDM Smith present. Items discussed:
 - Progress of Dredging (all progress as of Sunday 25 August 2013):
 - approx 5,664 cy of sediment dredged through end of day.
 - approx 6,610 tons of sediment plus 10% Portland cement has been stabilized at Clean Earth facility to date. 5,770 tons of that material has been sent to Oklahoma. None of the intermodal containers have been unloaded to date.
 - 252,307 gallons of dredge decant water has been transported to the offsite facility.
 - Monitoring Activities:
 - No in-river turbidity monitoring exceedances due to dredging activities.
 - Real-time air monitoring results are showing orders of magnitude below Residential Standards.
 - PMS1 was relocated to the weather station and has still had occasional H2S hits, but not related to the dredging operation.
 - All COPC results were non-detect or several orders of magnitude below the air indicator criteria. GW results are expected the first week of September.
 - Shoreline at 4T:
 - Where the clamshell bucket meets refusal, a plan will need to be made for this area moving forward. The clamshell is not equipped to remove this kind of material.
 - Schedule moving forward:
 - Dredging:
 - Review data and gain acceptance of Area 1 post dredge survey 24 hours after submittal of final survey results (we should have this tomorrow or Thursday morning.)
 - Move silt curtain



- Continue dredging Area 2.
- NJMUA has been notified by Gary of approaching the No-Dredge zone for 72" water lines in river.
- Continue to decant and stabilize at CE on alternate days according to barge transit schedule.
- Continue transport and disposal of stabilized sediment and filtered water.
- Continue air and water monitoring.
- We will be working on Labor Day.
- Interactions with Public:
 - Complaint from one rower received , no other issues.
- 1030 - 1110: Discussion between M Hoppe, S Kaczmarek, G. Foster, T.King, M. Passaro, J.Rolfe, Roy (Hill) in regards to potential solutions to the Shoreline Refusal issue.
 - The following ideas were discussed:
 - Using a land/amphibious excavator to remove all of the material. This is going to raise turbidity and also slope stability concerns.
 - Do not dredge further, place a cap on the existing surface. This will only work if sand is place to bring everything up to the same grade which is not currently at. Concerns are raised about laying a secure cap down with the nature of the tidal flows.
 - Stan has asked Hill and GLDD to propose solutions to the problem and rank them.

Sampling and Analyses:

- Riverside County Park: Mercury Samples were collected today and PCB air sampling device were deployed to be collected tomorrow. From now on different samples will be taken each day for PCBs and Dioxins. Real-time monitoring of VOCs, H2S and dust is ongoing. Noise monitoring is ongoing as well.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day. All five Buoys are functioning correctly and reporting to the monitoring website.
- In-River Air Monitoring: unit remained upwind of dredging activities and operational throughout the day.
- Transect Surface Water Sampling: Collected at Buoy #1 and #2. Sample were collected at mid-depth in three (3) locations of a transect at each of the buoys. The locations were 50 ft off the east and west shorelines (based on Mean Low Water Elevation) and in the channel. In prior samplings the Northings and Eastings of each of the transect sampling locations were taken. OSI positioned the sampling boat to these Northings and Eastings to ensure samples were collected from same locations.
 - CH2M Hill cuts dedicated tubing for each Buoy. Platinum-cured silicone tubing used in peristaltic pump, see photo.
 - OSI lowers YSI and dedicated tubing to mid-depth and begins two (2) minute purge. The YSI collects field parameters readings (pH, temperature, turbidity, DO, salinity) every half second



- (i.e., two (2) readings/second)
- After 2 minute purge, an aliquot of approximately four (4) L is collected into a plastic carboy (1 carboy for each Buoy). Field readings are recorded in the log book
 - After completing the 4 rounds, the carboys are brought back to the Field Office. A new length of platinum-cured silicone tubing is cut for each carboy and sample bottles are filled using a peristaltic pump. Total Hg and Dissolved Hg sample bottles are filled using the “Clean Hand” method.
 - 1536 (Sample time): M. Passaro (CDM Smith) collected a split sample from water collected at Buoy #2. Total Hg, Dissolved Hg , POC/DOC, SSC (aka TSS), PCB Congener, Dioxin/Dibenzofurans collected. Total and Dissolved Hg bottles filled using the “Clean Hand” method. Sample bottles were placed in onsite refrigeration unit until the cooler will be picked up Wednesday morning by J Rakowski (CDM Smith).

Deviation from Monitoring Plan/Design	Description & Reason
Area 2 Dredging	As discussed in the meeting, this is to keep productivity up and also to further characterize the shoreline in Area 2 regarding problem with dredging refusal.

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: none

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Stan	de maximis
Mike	CH2M Hill
Roy	CH2M Hill
Taylor	CH2M Hill
Jeff (H&S)	CH2M Hill
Joe (QA)	CH2M Hill
Meredith Passaro	CDM Smith

Site Representative: Meredith Passaro

Date: 27-August-2013

Representative's signature:



Fractured Rock Outcrop

Looking in the direction of the Rt. 3 bridge this is what is exposed at high tide in section 4T of Area 1.



Fractured Rock Outcrop

Same picture as before with outcropping highlighted in red.



Fractured Rock Outcrop



Shoreline Refusal Delineation

GLDD placed 2 stakes to delineate the known extent of the shoreline refusal.



Shoreline Refusal Delineation_2

Stake placed in the opposite direction of the Rt. 3 bridge showing the full extent of the known shoreline refusal.



Shoreline Along waterline at Low Tide

Shoreline mostly consists of sand in this area, but is difficult to get to based on the tidal flow and surrounding material.



Shoreline along waterline at low tide_2

Shoreline consists of Stiff Clay, sand, and rock.



Sheen at water line

This sheen was observed as the tide was coming in. Was able to run a stick through it to confirm it's of petrol base. No dredging was occurring at this time. Sheen ran along waterline.



Dredging Activities

Scow drafting 6 feet in front and 5 feet in back.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 28-Aug-2013	Report #: lpr_rm_10.9_Aug-28
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Scattered Clouds	Rain Showers
Temperature	75 F	82 F
Wind Direction	1 mph SE	6 mph SSE

Description of work performed by contr. this report period:

- 0810 – 1110: Dredge operation in progress
 - Clean seal on environmental clamshell is observed while onsite.
 - Scow is drafting 7 ft. and cycle times range from 60 – 90 seconds.
 - Went to the 4T area of the shoreline while the tide was down, still observed sheen on the water in very small amounts. Did not observe sheen as large as the day before.
 - Both low profile and high profile scows are back onsite from CE facility.
 - Material currently being dredged is clay.
 - PMS#1,2, and 3 are in good condition and running. Mobile real-time air monitoring station and in-river air monitoring station are in the proper place.
- 1110 - 1300: Dredging has stopped. High profile scow is drafting 8 ft. High profile scow is being moved out of place beside the dredge unit and the low profile scow is being moved into place.
 - The silt curtain is being repositioned.
 - 1150: Clouds are getting darker and thunder can be heard. Hill onsite shutting down air monitoring stations and covering real-time monitoring devices.
 - 1220: Starting to rain. – Rain continues for the rest of the afternoon.
- 1300-1635: Dredging is able to continue despite the weather.
 - 1440: Low profile scow is drafting 5 ft.



- 1523: Dredging has paused and both dredge barge and scow are relocated.
- 1534: Dredging activity resumes.
- 1620: Scow is drafting 6 ft. Rain has stopped. Hill onsite for air station maintenance.
- 1635: M.Passaro offsite and will check draft of low profile scow in the morning.
- End of day

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 0900: Stan from de maximis is onsite and discussed the following:
 - Current solution for the shoreline is to repackage the current analytical data from sampling along the shore, which shows minimal exceedances. Due to minimal exceedances will then backfill up to grade and place cap on top of. In this solution the originally proposed 12 “ of sand in the cap will be compromised along the shoreline. This is not a finalized solution, but is something he told me they were currently discussing.
 - The landfills in Oklahoma have yet to unload any of the Intermodal cars they’ve received stating that there is an excess of water in the cars. CE will be letting the sediment sit an extra day to further dry out.
 - There are still some ongoing issues with the bridges. One of them threatened not to open last night. This situation was clearly avoided due to the fact that both scows were onsite from the CE facility, but is something to make note of.
 - Goal for today is fill both high and low profile scows.

Sampling and Analyses:

- Riverside County Park: No sampling took place today, air sampling was shut down due to weather at about 1200.
- Real-time monitoring of VOCs, H2S and dust did not take place today due to the weather. Noise monitoring is ongoing as well.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day. All five Buoys are functioning correctly and reporting to the monitoring website. All Buoys were below the 50 NTU exceedance limit despite weather conditions.
- In-River Air Monitoring: unit remained upwind of dredging activities, but was not operational due to the weather.
- Transect Surface Water Sampling: Hill collected transect surface water samples at Buoy’s #3 and #4 today.
- Bathymetry Survey: Survey should be completed and sent out by the end of today for Area 1.



Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: none

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Gary Foster	CH2M Hill
Mike Holsinger	CH2M Hill
Andy Watson	CH2M Hill
Taylor	CH2M Hill
Jeff (H&S)	CH2M Hill
Joe (QA)	CH2M Hill
Meredith Passaro	CDM Smith

Site Representative: Meredith Passaro

Date: 28-August-2013

Representative's signature:



Dredge Activity This Morning

Good Clean seal observed. During low tide.



Storm Moving In

Change in surface water conditions due to strong winds.



Mobile Air Monitoring Station

Mobile air monitoring station is properly covered during wet weather event so none of the instruments are damaged.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 29-Aug-2013	Report #: lpr_rm_10.9_Aug-29
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Scattered Clouds	Scattered Clouds
Temperature	73 F	77 F
Wind Direction	6 mph ENE	7 mph E

Description of work performed by contr. this report period:

- 0810 – 0930: M. Passaro and J. Rolfe (de maximis) onsite at Riverside Park.
 - Low profile and high profile scow are not onsite from yesterday. Low profile scow must've been filled before end of day yesterday.
 - GLDD is currently resituating the silt curtain.
 - High profile scow next to the dredge barge is currently drafting 4-5 ft.
 - 0915: Dredging activities begin for the day. Low tide is at 10:20. A clean seal is observed from the clamshell bucket and cycle times are ranging from 60-90 seconds.
 - 0930: M. Passaro and J. Rolfe offsite to CE and Epic rail yard facilities.
- 0930 – 1050: M. Passaro and J. Rolfe onsite at CE facility.
 - As of this morning 20 Sediment trucks and 7 water trucks were loaded and taken offsite.
 - The high and low profile scows were both at the CE facility. The high profile scow had been dewatered and is being unloaded since it's low tide.
 - Mike (Hill) is onsite and the issue with the "free water" in the trucks arriving at Oklahoma was brought up. Hill and De maximis need more information from the landfill at this point in time, pictures received thus far do not appropriately represent the extent of the water. It is a stipulation that NO water in any amount be in the trucks in order for the landfill to accept the shipment.



- Discussed using an additive on the top of the truck loads to absorb water that's either condensing or vibrating out of the sediment on the 10-14 day train ride to Oklahoma. Most likely would use more Portland cement on top of the truck load. If another additive is used such as wood chips or sawdust another sample will need to be taken and submitted of the sediment since the substance has "changed."
- Walked onto loading platforms when trucks were being tarped shut. There is visible no free/standing water on the sediment in the trucks when leaving the site. There is visible moisture content to the sediment, but is in no way close to saturated conditions (no flowing water).
- 1050: J. Rolfe and M. Passaro left CE Facility.
- 1113 – 1130: J. Rolfe and M. Passaro onsite at Epic Rail Yard.
 - Louis Castro (Epic) showed us both around and gave us some background information related to the organization and set up of the facility (please refer to pictures).
 - Each Intermodal Car can hold 25-26 tons of material and each railcar can hold 6 Intermodal cars.
 - They have experienced no problems in regards to loading the Intermodal cars onto the railcars. They are all loaded live when they arrive onsite.
 - 1130: M. Passaro and J. Rolfe offsite of Epic Rail yard.
- 1150 – 1600: M. Passaro back onsite at Riverside Park.
 - Dredge barge and scow are further out into the river and silt curtain is in place.
 - Dredging is still in progress, high profile scow is drafting 5.5-6 ft.
 - Observe sheens on water as tide was coming in, once again observed minimal sheens.
 - 1400: Dredging has stopped, dredge barge and scow are relocating closer to Area 1. Dredging resumes at 1430.
 - PMS #1,2, and 3 are in good condition and running. The Weather station is in good condition. The mobile air monitoring station and in river air monitoring station are in proper position.
 - 1511: Dredging has stopped, dredge barge and scow are relocated further into Area 1. Possibly cleaning up some of the 7 spots missed on the survey. Dredging resumed at 1520, scow is drafting 8ft.
 - 1600: M. Passaro offsite for the day, dredging will continue until scow is drafting 9 ft.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 0910: Stan from de maximis is onsite and discussed the following:
 - Had a print out of the survey with him showing an additional 7 spots within Area 1 that did not clear the proposed dredge tolerance. Stated that the survey would still be issued out today with the understanding that these spots within Area 1 would be taken care of.
 - Buoy #5 will not be moved up to Area 2 until these spots within Area 1 are completed and the survey has been cleared. It will be moved with the silt curtain.
 - Also discussed that within the 4T limits, 3 analytical samples were taken by Hill and all of which characterize the shoreline far below the site screening criteria. These results are going to be summarized and reissued. Also additional shoreline samples will be taken to further



characterize the extent of contamination in this area in order to support design changes for the capping along the shoreline.

Sampling and Analyses:

- Riverside County Park: Only real-time air monitoring was shut down yesterday. Air samples were still collected and deployed. PCB's were collected yesterday and Dioxin deployed. Today Dioxin was collected and Hg/PM10 were deployed to the air sampling device.
- Real-time monitoring of VOCs, H2S and dust took place today. Noise monitoring is ongoing as well.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day. All five Buoys are functioning correctly and reporting to the monitoring website. All Buoys were below the 50 NTU exceedance limit despite weather conditions.
- In-River Air Monitoring: unit remained upwind of dredging activities and is operational.
- Transect Surface Water Sampling: None collected today.
- Bathymetry Survey: Survey is completed, 7 spots are identified within Area 1 that need further attention before being able to clear Area 1.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: none

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
John Rolfe	de maximis
Mike Holsinger	CH2M Hill



Taylor	CH2M Hill
Joe (QA)	CH2M Hill
Meredith Passaro	CDM Smith

Site Representative: Meredith Passaro

Date: 29-August-2013

Representative's signature:



Epic Rail Yard Fork Lift

Fork Lift used for moving Intermodal Cars onto Rail cars



Passiac River Intermodal Cars

Stacked on rail cars ready to ship out – labeled with “PR” in chalk on side.



Intermodal Cars Ready to Send to CE facility

Epic has stacks of Intermodal Cars onsite that have already been lined and are ready to collect sediment from CE facility.



Sheen as Tide comes in

Example of the minimal sheens observed as the tide comes in.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 30-Aug-2013	Report #: lpr_rm_10.9_Aug-30
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Overcast	Partly Cloudy
Temperature	71 F	84 F
Wind Direction	6.9 mph SW	13.8 mph W

Description of work performed by contr. this report period:

- 0810 – 1045: GLDD continued dredging, as observed from Riverside Park.
 - As discussed below in the Meeting/Discussions section, “clean-up” dredging took place in Area 1 in the sections identified during the Area 1 bathymetry survey. Today and tomorrow will be focused on Sections 5 and 6T of Area 1. The first few hours of the morning were dedicated to an area near the shoreline, at the northern edge of Area 1.
 - All three scows are stationed near the park today; both high-profile scows are moored near the fire department launch (one empty, one full) and the low-profile scow is being filled. The low-profile scow was drafting approximately 4.5 feet at the beginning of the day (not empty).
 - A relatively clean seal was observed on the dredge bucket with minor decanting and sediment loss. Few turbidity plumes were observed, and little turbidity was observed outside the silt curtains. There was no visible sheen on the water at the riverbank throughout the day.
- 1045 – 1500: GLDD relocated the dredging barge and scow approximately 30 yards south and continued work.
 - Dredge cycles were approximately 60 seconds, sometimes greater.
 - Each pass only gathered a small amount of sediment, probably no greater than 1 cubic yard. This is the nature of the “clean-up” being performed in Area 1 now, and consequently the scows will be filled slower than they would usually. These passes also include more water than



usual.

- The low-profile scow was filled (drafting approximately 9 feet) at 1500.
- 1500 – 1630: GLDD performed maintenance tasks and prepared to continue dredging tomorrow.
- At day's end all three scows were moored by the fire department boat launch; two of them are full and the third (high-profile) will be moved into position tomorrow.
- GLDD pulled several sections of the silt curtain from the river and unpackaged several new sections of silt curtain. These will likely be deployed tomorrow.
- The dredge barge was relocated further south at the end of the day, but it is unclear whether this will be the location of dredging tomorrow or if there is a different reason; will observe tomorrow.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 0900: John Rolfe from de maximis is onsite and discussed the following details/developments:
 - Per earlier conversation with Roy (CH2M Hill), GLDD's efforts today and tomorrow are focused on portions of Area 1 that did not clear the survey and require extra attention. They will be moving to different locations along the shoreline to finish each area. Sections 5 and 6T are the current areas of focus.
 - The evaluation of the shoreline refusal issue is ongoing; as mentioned in earlier daily reports, CH2M will likely explore the possibility of leaving the existing material in place and sampling around it. This will all be dependent on sampling results and subject to EPA approval.
 - United Water has been notified that the work is approaching their 72" water mains in the No-Dredge Zone and they will be sending personnel to check in periodically. BH pointed out that the 30' offset buoys are no longer in place and asked if there are any plans to realign them. JR responded that this is not needed as Roy (CH2M Hill) is fully aware of the water main location (based on shore markers) and is keeping a close eye on them.
 - John noted that offloading at Clean Earth is unlikely any earlier than Tuesday, as dredging will be proceeding at a slow (in terms of volume) pace until then due to the nature of going back to "clean up".
- 1500: BH mentioned to JR that previously there had been interest from EPA/CDM in pursuing downwind air monitoring of moored scows when they are full of sediment. He responded that the recent data have shown this not to be necessary, and mentioned furthermore that CH2M Hill may petition in the future to reduce the frequency/scope of air monitoring for the same reason (low concentrations in 24-hour composite sample results).

Sampling and Analyses:

- Riverside County Park: Hg/PM10 samples were collected this morning and PCB samples were deployed.
- Real-time monitoring of VOCs, H2S and dust took place today. Noise monitoring is ongoing as well.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the



day. All five Buoys are functioning correctly and reporting to the monitoring website. All Buoys were below the 50 NTU exceedance limit.

- In-River Air Monitoring: unit was repositioned today due to changing wind patterns, and was stationed upwind of the moored scows and the dredging activity.
- Transect Surface Water Sampling: None collected today.
- Bathymetry Survey: Survey is completed but not yet approved; “clean-up” of spots identified during the area 1 survey is ongoing.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: none

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Taylor	CH2M Hill
James	CH2M Hill
Andy Watson	CH2M Hill
Joe (QA)	CH2M Hill
Ben Hammond	CDM Smith

Site Representative: Ben Hammond

Date: 30-August-2013

Representative’s signature:



Water Main Offset Buoys

The buoys indicating the 72" water main (and 30' offset) have drifted north due to the tide, and should be located nearer the center of this photograph. De Maximis and CH2M Hill are aware of this and will be closely observing GLDD when they approach this area. The water main location can be easily discerned with the help of markers on the shore line, thus all parties know where they actually are and where to exercise caution.



Silt Curtain Unpackaging

At the end of the day, GLDD were observed pulling sections of the silt curtain from the river, meanwhile unpacking new sections on the barge. It is anticipated that these will be installed tomorrow.



Full Low-Profile Scow

GLDD filled the low-profile scow today. It is photographed here en route to the mooring area at the end of the day.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 31-Aug-2013	Report #: lpr_rm_10.9_Aug-31
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Overcast	Mostly Cloudy
Temperature	73 F	86 F
Wind Direction	8.1 mph SW	9.2 mph SSE

Description of work performed by contr. this report period:

- 0810 – 1100: GLDD spent the morning adjusting the silt curtain in preparation for the remainder of “clean-up” dredging in Area 1.
 - It was originally anticipated that dredging would resume at approximately 1100, but the task of gathering, replacing and redeploying the silt curtain took longer than expected.
 - Much of the existing silt curtain was replaced with newly-unpacked curtain.
 - Both filled scows were sent downriver to Clean Earth overnight, leaving only the empty high-profile scow this morning, which remained moored near the fire department boat launch.
- 1100-1300: GLDD finished repositioning the silt curtain in preparation for the rest of Area 1 dredging
 - It now extends further north than before, partially into Area 2
 - The dredge barge was originally situated outside the silt curtain during installation (for ease of installation) and therefore the barge had to be relocated around the edge of the silt curtain before GLDD could tie off the curtain at the shore.
- 1300 – 1600: GLDD continued dredging Cuts 5 and 6 in Area 1.
 - Dredge cycles were approximately 50-60 seconds. Large volumes of water were loaded into the scow relative to the amount of sediment. The dredged material contained noticeable rock fragments, and was otherwise comprised mostly of clay with some sand.



- Some sediment loss and decanting was noted on some of the dredge passes; in general a clean seal was observed.
- There were few visible turbidity plumes resulting from dredging activity, and none outside the silt curtain.
- The high-profile scow was drafting approximately 5 feet at the end of the day. As mentioned in the Meetings/Discussions section below, the schedule in the coming days is dependent on the repair of the Bridge St. Bridge, which is currently not operational. Per Stan, GLDD will move the dredge barge out of the silt curtain today to allow OSI to perform a survey of the newly-dredged portions of Area 1. The survey will take place either Monday or later, if it is determined that the bridge issue renders Monday work unnecessary.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1145: Phone conversation with Stan Kaczmarek (returning BH phone call initially placed at 11):
 - The Bridge St. Bridge needs to be repaired before it can be opened again. It was opened last night to allow downriver movement of the two filled scows but then failed to close. It is closed now, but it is unknown when it will again be operational to allow scow movement.
 - Regarding the initial reason for the phone call (planned dredging activities for today), Stan reiterated that dredging of Cuts 5 and 6 in Area 1 should be continuing today. This just seems to be taking longer to start than expected.
- 1345: Conversation with Stan Kaczmarek on site.
 - Stan is working to see when Bridge St. can be repaired. He stated that we will still hope to proceed as planned with the dredging schedule, but he will notify all parties if there is going to be a delay. He added that the next tasks on the river would be surveying the newly-dredged portions of Area 1 and deploying silt curtain in Area 2, which together could take over a day.

Sampling and Analyses:

- Riverside County Park: PCB samples were collected this morning. There was no 24-hour composite monitoring today.
- Real-time monitoring of VOCs, H2S and dust took place today. Noise monitoring is ongoing as well.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day. All five Buoys are functioning correctly and reporting to the monitoring website. All Buoys were below the 50 NTU exceedance limit.
- In-River Air Monitoring: unit was stationed upwind of the moored scows and the dredging activity.
- Transect Surface Water Sampling: None collected today.
- Bathymetry Survey: Survey is completed but not yet approved; “clean-up” of spots identified



during the Area 1 survey is ongoing. Area 1 survey will be continued early next week to reevaluate portions of Area 1.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: none

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Taylor	CH2M Hill
James	CH2M Hill
Andy Watson	CH2M Hill
Joe (QA)	CH2M Hill
Ben Hammond	CDM Smith

Site Representative: Ben Hammond

Date: 31-August-2013

Representative's signature:



Silt Curtain Adjustment/Replacement/Deployment

GLDD spent the morning removing much of the existing silt curtain and replacing it with new silt curtain. The silt curtain was deployed to Area 1, but slightly further north to allow better access to the as-yet-unfinished sections.



Continued Clean-up Dredging

From 1300 until 1600, GLDD began filling the high-profile scow. This photograph is facing south, about 30 yards south of the No-Dredge Zone. OSI will survey this area early next week.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 3-Sep-2013	Report #: lpr_rm_10.9_Sep-03
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Overcast	Mostly Cloudy
Temperature	73 F	82 F
Wind Direction	Calm	10 mph W

Description of work performed by contr. this report period:

- ~0830 – 1300: GLDD dredged in Area 2 and filled the remaining high-profile scow.
 - GLDD are beginning with Cut 9 and will work back towards the No-Dredge Zone.
 - It was observed that GLDD spent yesterday repositioning the silt curtain in Area 2. The silt curtain was installed correctly and no issues were noted.
 - Dredging today occurred directly in front of the weather station and Fire Department boat launch.
 - Dredge cycles were approximately 45-60 seconds. Large amounts of debris (branches, concrete, rebar) were observed in many of the passes when GLDD were working near the riverbank. In these passes there was decanting and sediment loss, however generally a satisfactory seal was observed on the environmental dredge bucket.
 - GLDD were observed cleaning up at 1300, having filled the last scow currently available at RM 10.9
 - Dredging will resume tomorrow with the arrival of two empty scows from Clean Earth.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1145: Brief conversation at with Stan Kaczmarek at Riverside Park
 - The Bridge St. Bridge will be opened by tow trucks tonight to allow upriver movement of two



empty scows from Clean Earth. This will allow dredging to resume tomorrow. The Bridge St. Bridge will not be repaired for several weeks, and therefore he will be working with local authorities to have the bridge permanently open until then.

Sampling and Analyses:

- Riverside County Park: 24-hour composite samples were deployed today for Dioxin analysis.
- Real-time monitoring of VOCs, H₂S and dust took place today. Noise monitoring is ongoing as well.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day. All five Buoys are functioning correctly and reporting to the monitoring website. All Buoys were below the 50 NTU exceedance limit.
- In-River Air Monitoring: unit was stationed upwind of the moored scows and the dredging activity.
- Transect Surface Water Sampling: Did not interact with any CH2M Hill water monitoring staff during abbreviated site visit- will verify if transect samples were collected tomorrow.
- Bathymetry Survey: Survey is completed and there has been no further word regarding approval- will inquire tomorrow.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: none

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Taylor	CH2M Hill



James	CH2M Hill
Andy Watson	CH2M Hill
Joe (QA)	CH2M Hill
Ben Hammond	CDM Smith

Site Representative: Ben Hammond

Date: 3-September-2013

Representative's signature:



Area 2 Silt Curtain

GLDD deployed silt curtain to Area 2 yesterday (Monday, September 2nd, 2013).



Area 2 Dredging

GLDD dredged in Area 2 today. Noticeable debris prevented a clean seal on many of the passes, as shown above. Dredging progressed without delay.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 4-Sep-2013	Report #: lpr_rm_10.9_Sep-04
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Partly Cloudy	Scattered Clouds
Temperature	70 F	80 F
Wind Direction	12.7 mph W	12.7 mph SW

Description of work performed by contr. this report period:

- Dredging did not occur today, as there was no upriver movement of scows overnight due to the Bridge St. Bridge malfunction.
 - The filled high-profile scow remains moored near the fire department boat launch
 - Silt curtain remains properly positioned in Area 2
 - Dredging will resume once the Bridge St. Bridge is opened to allow scow movement. This will not occur for at least a couple of days, and is discussed further in the following section.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1000: The weekly progress meeting was held at the field office on Madison Street. Personnel from GLDD, CH2M Hill, de maximis, CDM Smith and EPA were either present or included via telephone. Topics of discussion included health and safety, weekly and cumulative progress, technical issues that have arisen, Bridge St., and air and water quality monitoring. Details of note include the following:
 - 8,000 cubic yards of material have been dredged to date and 582,000 gallons of water have been processed at Clean Earth
 - A rower was rescued from the Passaic River early this morning. Emergency responders found him holding onto the silt curtain.



- The Area 1 survey has been cleared with the exception of Cut 4T along the shoreline. This is the area where the environmental dredge bucket encountered refusal. CH2M Hill will need to investigate this area and propose a means of analytical sampling to support clearing this area.
 - The Bridge St. Bridge is inoperable. It will not be repaired for several weeks. In order to continue dredging, the bridge will need to be kept open permanently. Hudson County would prefer to have it left closed. GLDD have reached out to the Coast Guard to intervene, however their calls have been unanswered. Mike Hoppe (EPA) will call the Coast Guard to get them involved as soon as possible.
 - Standing water has been observed in the intermodal containers carrying stabilized material upon their arrival in Oklahoma. This is a significant problem because the material is required to be dry when it is landfilled, and also because there are additional risks associated with shipping contaminated water (i.e. spills). The material is dry, however, when it leaves the Clean Earth facility. It is unclear where the standing water comes from, and this issue will need to be monitored closely.
 - Air and water quality monitoring is ongoing, and there have been no trigger level exceedances with the exception of a few H₂S hits that are due to a nearby sewer line rather than the dredging activity. This is documented in earlier reports.
-
- 1330: The Coast Guard is now engaged in correspondence with Hudson County and the RM 10.9 parties (EPA, de maximis, CH2M Hill). The Coast Guard indicated that Hudson County's case for leaving the bridge closed is insufficient. It is possible, then, that they will have to open the bridge on the basis of maintaining a navigable waterway sometime in the next few days. A key detail is that the bridge failed while it was open rather than while it was closed. More details will be provided soon.
 - 1345: Discussion with Mike Hoppe (EPA) and Jen Wilkie (CH2M Hill) about reducing the COPC air sampling. Sampling currently takes place every day on a 3-day rotation (PCBs, Dioxins, PM₁₀/Hg). CH2M Hill would like to reduce this monitoring in part so they can return some of their rental equipment. The COPCs have either been nondetect or orders of magnitude below action levels. Mike suggested that monitoring be reduced to a total of 3 days each week, such that during each Monday-Saturday work week there would be 1 PCB sample, 1 dioxin sample and 1 PM₁₀/Hg sample. The issue is complicated by Section 3.3 of the Air Monitoring Plan, which calls for daily monitoring of all COPCs during dredging of Transects 21+00 through 28+00. Jen was asked to prepare a formal proposal for EPA review.
 - 1500: Visited Riverside Park with Jen Wilkie to investigate the refusal area (Cut 4T) in Area 1. The purpose of the visit was to inform a sampling plan by CH2M Hill. Jen's preliminary conclusion was that there is enough sediment on/around the rocky area to collect samples. I generally agree with this, though it will depend on the sampling approach/frequency approved by EPA. A statistically significant number of samples must be collected.



Sampling and Analyses:

- Riverside County Park: 24-hour composite samples were collected for Dioxin analysis. No samples were deployed, as dredging did not take place.
- Real-time monitoring of VOCs, H₂S and dust took place today. The southern air monitoring station was moved north today, to an area between the little league field and the gazebo at the edge of Riverside Park. Noise monitoring is ongoing as well.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day. All five Buoys are functioning correctly and reporting to the monitoring website. All Buoys were below the 50 NTU exceedance limit.
- In-River Air Monitoring: No dredging activity today; in-river air monitoring remains stationed upwind of current dredging location.
- Transect Surface Water Sampling: No dredging activity today.
- Bathymetry Survey: Area 1 survey has been approved with the exception of Cut 4T.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: none

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
John Rolfe	de maximis
Mike Hoppe	EPA
Todd King	GLDD
Mike Holsinger	CH2M Hill
Jen Wilkie	CH2M Hill



Taylor	CH2M Hill
James	CH2M Hill
Andy Watson	CH2M Hill
Joe (QA)	CH2M Hill
Jeff (H&S)	CH2M Hill
Ben Hammond	CDM Smith

Site Representative: Ben Hammond

Date: 4-September-2013

Representative's signature:



PMS #2 relocation

CH2M Hill relocated PMS #2 from the southern edge of the dredging area to the northern edge, now that dredging has progressed to Area 2. The monitoring station is located just north of the northernmost baseball field and will continue to monitor VOCs, dust and H₂S in real-time and collect COPC samples as required. PMS #3, located near the United Water pump station, is now the southernmost monitoring station.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 19-Sept-2013	Report #: lpr_rm_10.9_Sept_19
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Sunny, Clear	Sunny, Clear
Temperature	53 F	80 F
Wind Direction	0 mph	0 mph

Description of work performed by contr. this report period:

- 0745: M. Passaro onsite at field office.
- 0801 - 0840: M. Passaro onsite at Riverside Park.
 - Low profile scow "Chubby" and high profile scow are both anchored in the middle of the river. Low profile "Stymie" is next to dredge unit.
 - Silt curtain is in place and Buoy #5 is in the correct location.
 - Dredging has not started, GLDD is finalizing position of "Stymie" and dredge unit.
- 0840 – 1220: Dredging operation begins, "Stymie" is drafting approximately 4 ft.
 - Material in the first buckets along the shoreline is mostly trash and construction debris, similar to what has previously been seen along the shore.
 - Cycle times are ranging between 60-70 seconds.
 - The observed seal on the dredge buckets is not clean due to the amount of debris being extracted.
 - 0900: The silt curtain was migrating off the side of the scow, GLDD stopped dredging in order to secure the curtain with ropes before continuing to dredge.
 - 0920: Observed an odor (similar to that of Aroclor and commonly associated with the presence of PCBs) which was then followed by the observation of sheens on the water. The sheens were larger than those previously observed on the river and were coalescing. Was unable to



photograph due to the lighting. The area being dredged was the front left corner of the old dock, to the right of the firefighter's boat launch. The odors were not prolonged and were not observed once dredging moved to another location. The sheens observed once the dredging moved were minimal in comparison.

- CPG was notified due to these observations and in response deployed a 24-hr PCB air sample at PMS #1 (deployed at 1040), readied absorbent booms for any future sheens, and posted a lookout to observe the rest of the dredging to notify the crews if/when the booms needed to be placed.
 - Both Stan and John from de maximis are onsite.
- 1130: PMS#3 is not hooked up to a power source and does not appear to be on, equipment is in good condition. PMS#2 and PMS#1 are on and in good condition. The mobile air monitoring unit is not onsite. The weather station is in good condition and running.
- 1220: M. Passaro offsite for lunch.
- 1250 - 1600: M. Passaro back onsite at Riverside Park.
 - 1310: Spoke with Stan about air monitoring onsite. They stopped COPC sampling when dredging stopped. Continuous air monitoring was in place adjacent to the barge still in the water. Jen Wilkie will be onsite in the morning to start the sampling regiment. Stan confirmed that the mobile air monitoring station is not onsite.
 - 1311: Scow is drafting close to 8 feet, material in this area is different than what we've seen onsite. Material is dark black, hard to tell if more clay or sand, but based on cohesion in clamshell it would be more clay content than sand. Material has a strong odor to it (more petrol than the odor from the morning).
 - 1400: Stan informed me that dredging will continue today past 1400. The mobile air monitoring station will be put in place tomorrow morning.
 - 1421: Combination of low tide and GLDD has uncovered a large object in the mud flats. Hard to tell if construction debris or possibly part of tank. Hill, de maximis, and GLDD are all aware of the object.
 - 1547: Scow is completely full and is drafting 8' on all sides. John of de maximis informed me that GLDD will be filling the scow up to 8' every time and that Clean Earth will be completely unloading each of the scows and not returning them with material.
 - 1600: Dredging has stopped for the day. M. Passaro is offsite.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

No Meetings or Discussion

Sampling and Analyses:

- Riverside County Park: Real-time air monitoring was taken at the weather station (PMS#1) and PMW#2. PMS#3 was shut down and the mobile unit was not onsite. Air samples were deployed for PCB's at PMS#1 and PMS#2.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the



day. All five Buoys are functioning correctly and reporting to the monitoring website. All Buoys were below the 50 NTU exceedance limit.

- In-River Air Monitoring: Was not able to get a visual on the air monitoring unit, will need to confirm tomorrow morning that it is in river and functioning. Should not have been moved due to the barge being kept in river.
- Transect Surface Water Sampling: None collected today. It has not been decided when sampling will begin again.
- Bathymetry Survey: No survey took place today.

Deviation from Monitoring Plan/Design	Description & Reason
Alterations to the real-time air monitoring.	These alterations were made to the plan due to the fact that dredging had stopped. The mobile unit was removed from the site and there was no power supply to PMS#3. All of the sampling will be started tomorrow morning as per discussion with Stan. Jen Wilkie from Hill will be onsite.

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: none

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Taylor	CH2M Hill
Joe (QA)	CH2M Hill
Meredith Passaro	CDM Smith

Site Representative: Meredith Passaro

Date: 19-September-2013



Representative's signature:

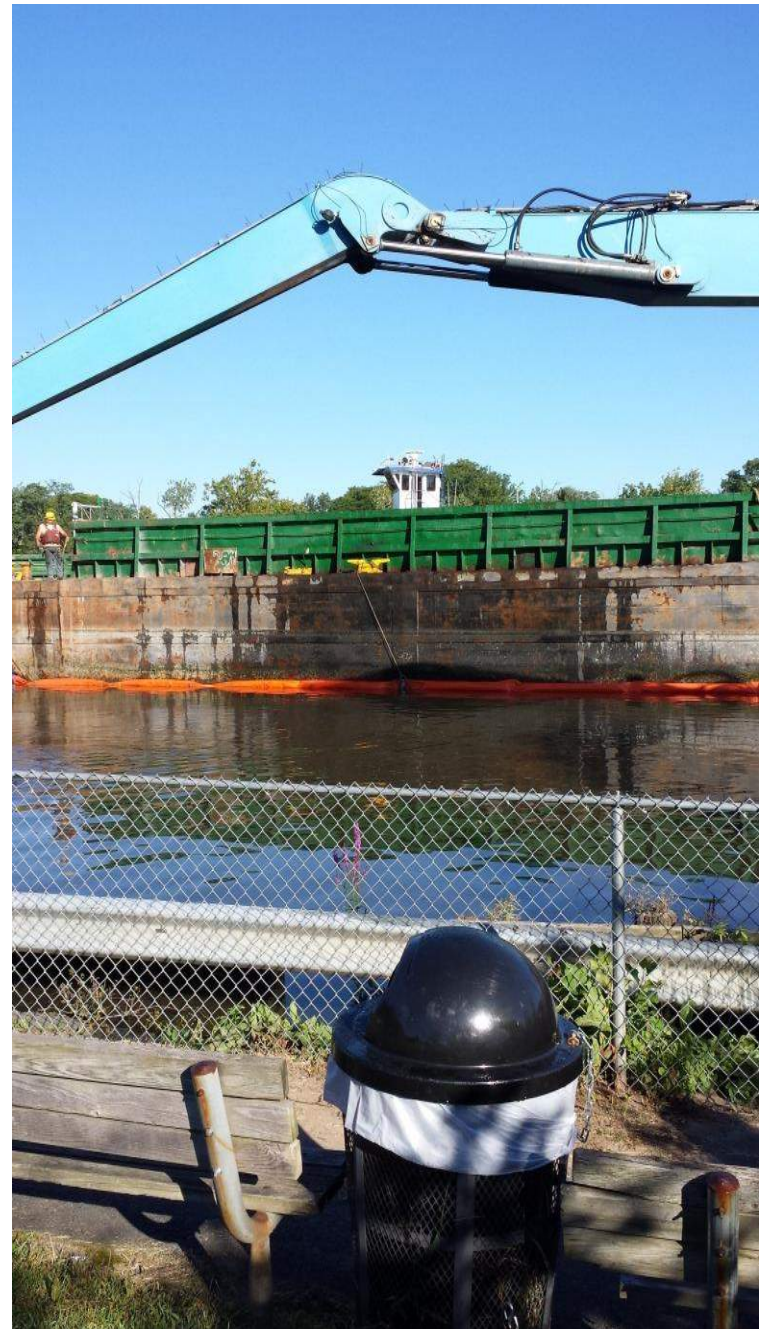


0920 Dredge Location

At this location is where the odor and sheen were observed. I was unable to get a good picture of the sheens.

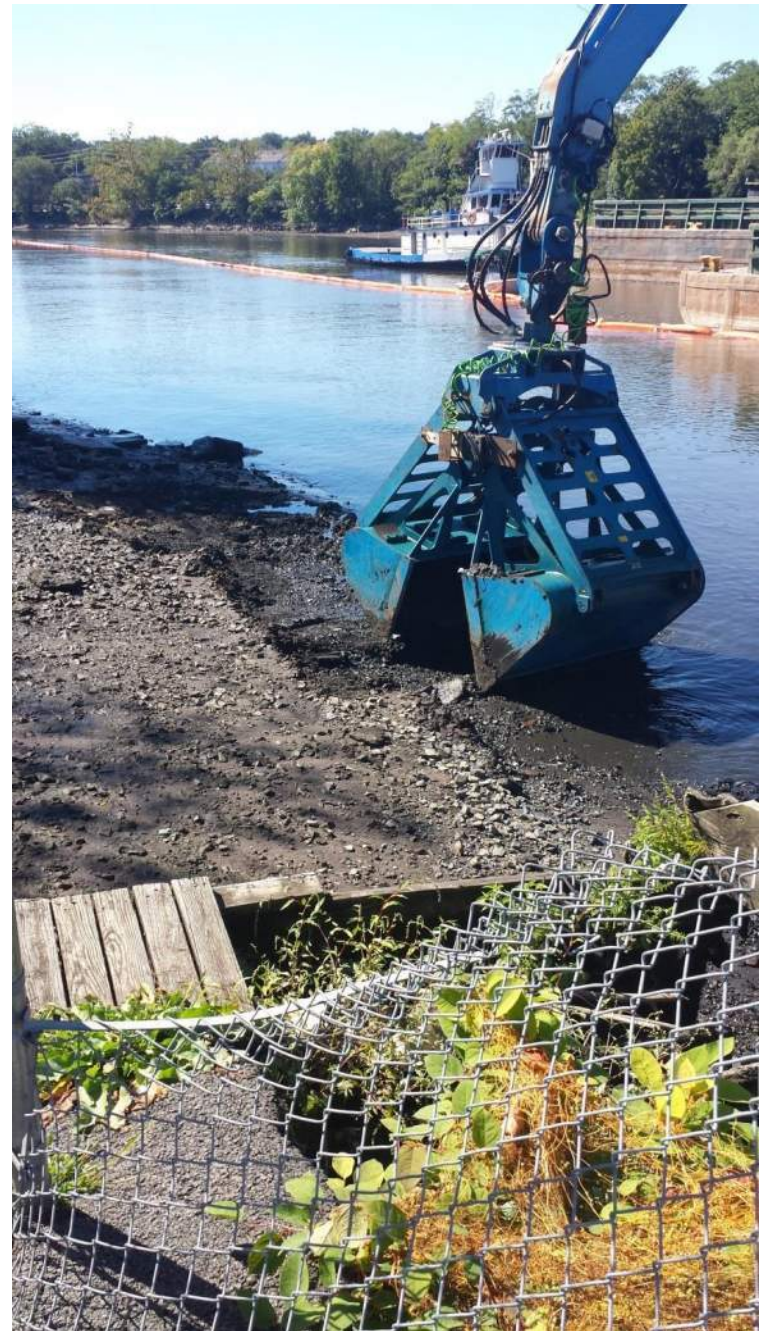
Securing the Silt Curtain

Silt Curtain was tied to the side of the scow with ropes to secure it and keep it flush with the side of the scow.



Shoreline Dredging During Low Tide

Since the area next to the boat launch is deeper than the previously dredged areas, the operator was able to reach the shoreline during low tide.





United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 20-Sept-2013	Report #: lpr_rm_10.9_Sept-20
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	63 F	77 F
Wind Direction	0 mph	0 mph

Description of work performed by contr. this report period:

- 0810 – 1245: M. Passaro onsite at Riverside Park. Dredging has not yet started for the day.
 - Low profile scow “Stymie” and high profile scow are not onsite and were moved to the Clean Earth Facility last night. “Chubby” is lined up next to the dredge barge and is drafting 3-4 ft.
 - 0850: Dredging begins onsite. Material in buckets from along the shoreline is a combination of trash and construction debris. Difficult to maintain a good seal with this material. Cycle times range from 60-90 seconds. No odors or sheens are observed. A clean seal is observed as the dredge unit moves further out into the river.
 - 0915: John (de maximis) is onsite and just visited the Clean Earth facility. Reported that one scow was dewatered and was ready to be unloaded. No other activity is taking place at Clean Earth today, such as water or sediment trucks leaving the site.
 - 1000: Conducted walk through of park to check status of all Air monitoring stations. PMS#1, PMS#2, the Mobile unit, and in-river unit are all in good condition and running. PMS#3 is having electrical difficulties, but will be online in the afternoon. The mobile unit is placed in the park for additional monitoring.
 - 1048: M. Hoppe (EPA) arrives onsite.
 - 1230: Dredging is suspended and side of scow is washed before moving the dredge unit. “Chubby” is currently drafting approximately 7 ft.
 - 1240: Dredging operation starts back up.
 - 1245: M. Passaro and M. Hoppe offsite.



- 1300-1400: M.Passaro onsite at field facility to confirm earlier conversation with Jen Wilkie and also take safety training video for GLDD in order to go on the Barge.
- 1400 – 1545: M. Passaro back onsite at Riverside Park. John (de maximis) and M. (Hoppe) is onsite and “Chubby” is currently being moved again. Low tide is continuing to move in.
 - 1407: Dredging operation continues no change in activities from earlier today.
 - 1500: M.Hoppe leaves site for the day.
 - 1522: “Chubby” is drafting between 8-8.5 ft. and dredging is still continuing.
 - 1536: Dredge operator is washing side of scow. Dredging for the day is complete and scow is at allowable capacity for navigation purposes. Stan is onsite and discusses staying on standby for working on Sunday. Final draft of scow is approximately 8.5 ft.
 - 1543: Confirmed that PMS#3 is back online.
 - 1545: M. Passaro is offsite for the day.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 0830: Stan (de maximis) and Jen Wilkie (Hill) are onsite and discussed the following:
 - Spoke with Jen about air sampling and monitoring equipment. The mobile unit is set up in place in the park. All units are conducting composite sampling and real-time air monitoring today. She is looking into relocating the in-river air monitoring station to the upwind position of the dredging operation. Lastly, the electricity in the park was shut down last week and has caused problems with PMS#2 and PMS#3. Issues with PMS#2 were resolved which is why it’s currently running, but an electrician has been called to attend to PMS#3, which is scheduled to be back online this afternoon. Jen will be onsite all of next week and transect sampling will begin next week

Sampling and Analyses:

- Riverside County Park: Composite sampling resumed today (PCBs, Dioxins, Mercury and PM10). Real-time monitoring of VOCs, H2S and dust is ongoing. Noise monitoring is ongoing as well.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day. All five Buoys are functioning correctly and reporting to the monitoring website. Buoy 5 experienced elevated turbidity levels. Spikes at Buoy 5 occurred after dredging was stopped for the day.
- In-River Air Monitoring: unit is down-gradient of the dredging activities. Was told this was due to navigational issues in the river as to why it’s not placed upwind of the dredging.
- Transect Surface Water Sampling: No sampling took place today, but will be starting back up next week.



Deviation from Monitoring Plan/Design	Description & Reason
In-River Air Monitoring Station	Unit is downwind of the dredging operations. Andy stated that this was due to issues with river navigation in placing it upwind of the current dredge location. Jen Wilkie is in the process of relocating the unit upwind.
PMS#3 is Offline during the Morning	This is due to electrical problems from an unexpected electrical shutdown earlier in the week. An electrician was called and PMS#3 was fixed and online by the afternoon.

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: See above

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
John Rolfe	de maximis
Mike Hoppe	EPA
Roy	CH2M Hill
Jen Wilkie	CH2M Hill
Taylor	CH2M Hill
Meredith Passaro	CDM Smith

Site Representative: Meredith Passaro

Date: 20-September-2013

Representative's signature:

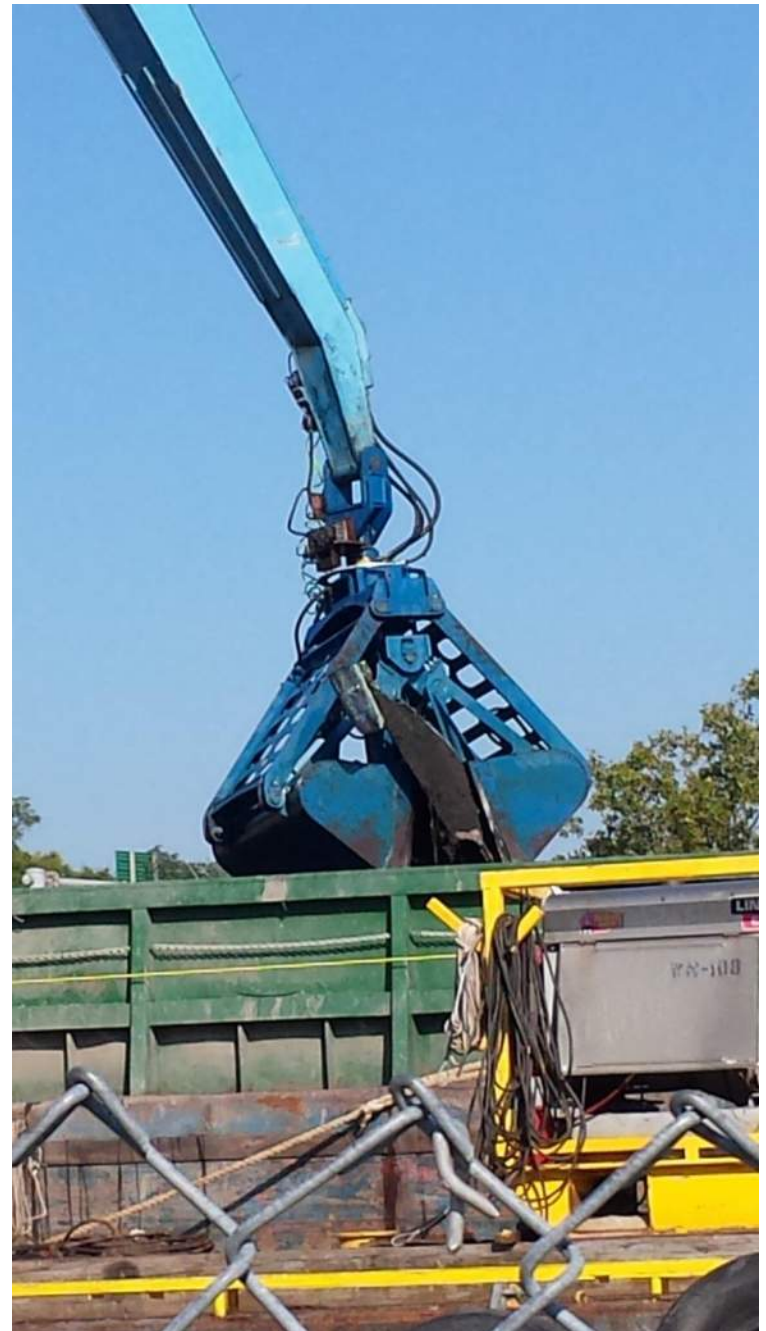
Mobile Air Monitoring Station

Mobile Air Monitoring Station was placed in the park between the baseball field and the active dredging activities.

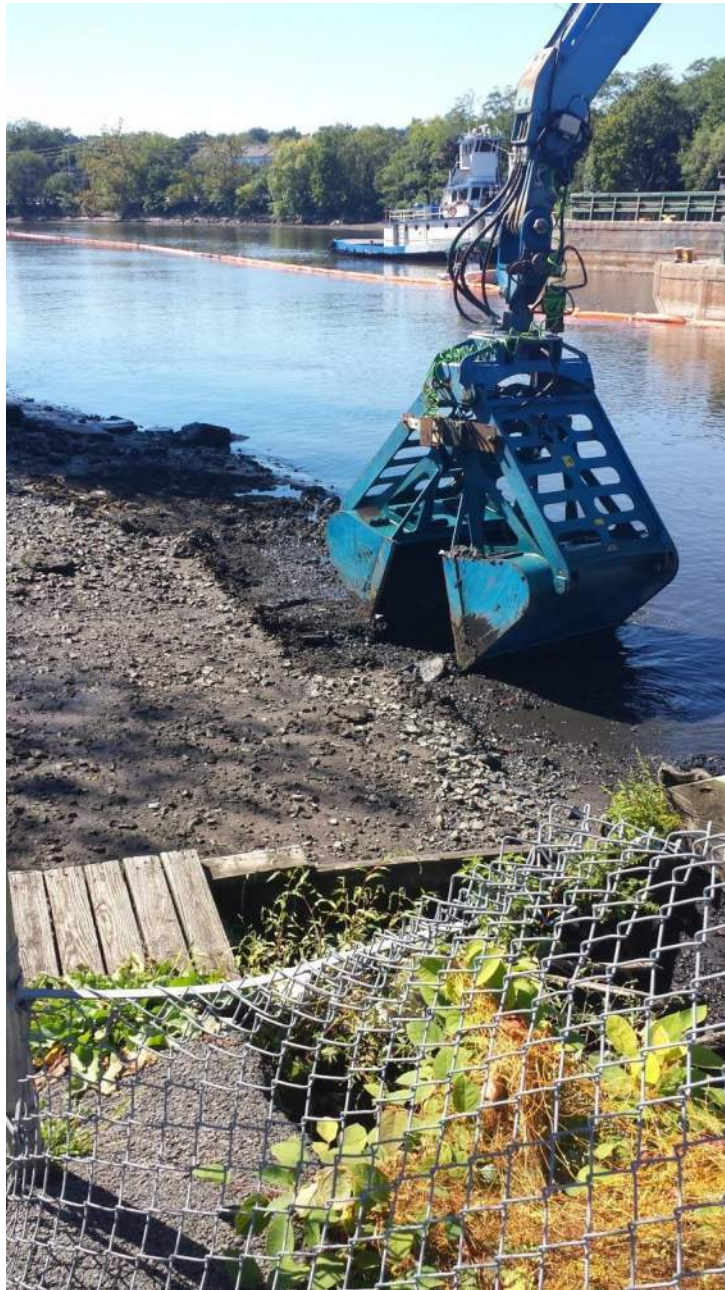


Excavated Boat from Shoreline

Yesterday there was an unidentified object in the shoreline that was observed at low tide. Today the object was extracted and found to be a boat.



09/19/13 Shoreline



Side-by-Side comparison of the Shoreline next to the boat launch from yesterday and today. Pictures were taken at roughly the same time during low tide around 1530.

09/20/13 Shoreline





1545 Final “Chubby Draft”

Final Draft of “Chubby” is approximately 8.5 – 9 ft. Scale on side of scow was obscured.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 21-Sept-2013	Report #: lpr_rm_10.9_Sept-21
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Cloudy	Cloudy
Temperature	63 F	72 F
Wind Direction	4.0 mph SSE	6.0 mph SSE

Description of work performed by contr. this report period:

- 0940 – 1105: M. Passaro onsite at Riverside Park. Dredging operation is in progress.
 - Confirmed with Roy that dredging began at 0825 this morning into the low profile scow “Stymie.” Stymie is currently drafting 5.5-6 ft. Also confirmed with Roy that Stymie was not completely empty of material when it was returned back to the site.
 - No odors or sheens are observed and cycle times range from 60-90 seconds.
 - Also onsite, a large profile scow currently drafting 3.5-4 ft. (empty) and also the low profile scow “Chubby” (full drafting close to 9 ft)
 - 1010: Dredging has stopped in order to fuel up equipment on the barge.
 - 1015: Joe (Hill QC) is onsite and said that Jen was just onsite earlier switching out samples for the air monitoring stations. Took a brief walk of site to inspect PMS stations:
 - PMS#3, PMS#2, and PMS#1 are all in good condition and running.
 - The Mobile unit is in place in the park and is in good condition and running.
 - The In River unit is currently “upwind” of the dredge operations due to the wind’s direction today.
 - Air monitoring unit in the weather station is in good condition and running.
 - 1103: Dredging activities are starting back up. Stan (de maximis) is onsite.
 - 1105: Stan (de maximis) and M. Passaro leave River side park for boat launch.
- 1120 – 1210: Traveled out to Dredge barge for site visit with Stan (de maximis) via Roy (Hill).
 - While on barge met with Todd King (GLDD) and was able to observe the real-time monitoring



of the dredge cuts being made. Currently working in cut 9. Yesterday approximately 565 CY of material were dredged from the river.

- Was also able to observe the dredge operation taking place from the barge. All onsite workers had proper PPE on.
- Also observed large flows of trash and debris on the river today, have not observed this much trash on river since late August after a large storm. It is pooling around the buoys and dredging equipment. Silt curtain is acting as a barrier between the floating trash and dredge zone.
- 1230 – 1600: M. Passaro back onsite at Riverside Park. Jen (Hill) onsite conducting routine maintenance of air monitoring stations. Spoke with her briefly and says she's putting together a technical memo to justify cutting down the frequency of air sampling. It should be ready for review by next week.
 - 1240: Dredging has paused; dredge unit is moved into deeper water due to the lowering tides.
 - 1305: Dredging operation resumes. Scow is drafting between 8-8.5 ft. A good seal and good recovery is observed from this location in the river.
 - 1456: Scow is currently drafting just below 9 ft. Dredge operator is washing off the side of the scow and the dredge crew is measuring the depth down to material around the perimeter of the scow.
 - 1524: Full Scow "Stymie" is moved out of place next to the dredge unit and high profile scow is moved into place next to the dredge unit. The high profile scow is currently drafting between 3.5-4 ft.
 - 1542: Dredging begins with the high profile scow. Stan (de maximis) is onsite. Spoke with Roy who says dredging will continue until 1700-1730 tonight.
 - 1645: M. Passaro and Stan (de maximis) offsite for the night. The high profile scow is currently drafting 4.5 ft.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer: None

Sampling and Analyses:

- Riverside County Park: Composite sampling occurred today (PCBs, Dioxins, Mercury and PM10). Real-time monitoring of VOCs, H2S and dust is ongoing. Noise monitoring is ongoing as well.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day. All five Buoys are functioning correctly and reporting to the monitoring website. Buoy 5 experienced elevated turbidity levels. At approximately 1542, Spikes at Buoy 5 of 130 NTUs were observed. GLDD made a trip to inspect the buoy and cleaned the debris out from around it. Readings at Buoy 5 were down to 13 NTU before leaving site today.
- In-River Air Monitoring: unit is in proper place and is upwind of dredge operations today.
- Transect Surface Water Sampling: No sampling took place today, but will be starting back up next week.



Deviation from Monitoring Plan/Design	Description & Reason
None Today	

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Roy	CH2M Hill
Jen Wilkie	CH2M Hill
Joe (QC)	CH2M Hill
Todd King	GLDD
Meredith Passaro	CDM Smith

Site Representative: Meredith Passaro

Date: 21-September-2013

Representative's signature:



Onsite at Dredge Barge



Trash/Debris build up around Scow and Dredge Barge



Silt Curtain acting as barrier between Trash/Debris and Dredge Area



Active Dredging While on the Barge

In the foreground is the Geotextile fabrics arriving for the capping.



“Stymie” Drafting approximately 9 ft. at Final Draft



“Stymie” being switched out for High Profile Scow



“Chubby” and “Stymie” moored for the evening.

Chubby is tilted not due to material inside, but is partially on the mudflat and being pulled down by anchors on each side.

Shoreline next to boat launch 9/21/2013





United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 22-Sept-2013	Report #: lpr_rm_10.9_Sept-22
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	2:00 PM
Weather	Clear	Cloudy
Temperature	65 F	65 F
Wind Direction	5.0 mph SSE	6.0 mph SSE

Description of work performed by contr. this report period:

- 0940 – 1440: M. Passaro onsite at Riverside Park. Dredging operation is in progress. J. Rolfe is onsite.
 - Confirmed with Roy that dredging began at 0850 this morning into the high profile scow which is dredging approximately 6 ft. No odors or sheens were observed and cycle times range from 60-70 seconds.
 - Bathymetry survey is being completed in the area next to the boat launch.
 - Both “Stymie” and “Chubby” are no longer onsite. Clean Earth is not working today so they will not be processed until Monday.
 - 1128: Dredging has stopped in order to fuel up equipment on the barge. Conducted site walk of air monitoring stations:
 - PMS#2: Equipment is in good condition. Had just reached its sample time and was being collected.
 - PMS#1 and PMS#3: Equipment is in good condition and both were running.
 - In River Unit: Unit is upwind of dredging and appears to be in good condition.
 - Mobile Unit: Located in park and in good condition.
 - 1147: High Profile scow is drafting 7 ft.
 - 1155: J. Rolfe is offsite.
 - 1220: Dredging has stopped.
 - 1300: Dredging operation resumed and J. Rolfe is back onsite. Scow is drafting between 7-7.5 ft.



- 1351: Buoys are being deployed back in the No Dredge Zone.
- 1435: Dredge operator is washing the sides of the scow. Scow is drafting between 8.5-9 ft. Confirmed with Roy that dredging is complete for the day.
- 1440: M. Passaro offsite for the day.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer: None

Sampling and Analyses:

- Riverside County Park: Composite sampling occurred today (PCBs, Dioxins, Mercury and PM10). After the last two days of collecting all composite samples, the previous rotation of collecting a different parameter per day will start today. Mercury and PM10 will be deployed as of today. Real-time monitoring of VOCs, H2S and dust is ongoing. Noise monitoring is ongoing as well.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day. All five Buoys are functioning correctly and reporting to the monitoring website. Buoy 5 experienced elevated turbidity levels. At approximately 1515, Spikes were observed at Buoy's 1 and 5. This occurred after dredging activities concluded for the day.
- In-River Air Monitoring: unit is in proper place and is upwind of dredge operations today.
- Transect Surface Water Sampling: No sampling took place today, but will be starting back up next week.

Deviation from Monitoring Plan/Design	Description & Reason
None Today	

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.



Site Visitors	Representing
John Rolfe	de maximis
Roy	CH2M Hill
Jen Wilkie	CH2M Hill
Joe (QC)	CH2M Hill
Todd King	GLDD
Meredith Passaro	CDM Smith

Site Representative: Meredith Passaro

Date: 22-September-2013

Representative's signature:





United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 23-Sept-2013	Report #: lpr_rm_10.9_Sept-23
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	65 F	65 F
Wind Direction	11.0 mph NNW	13.0 mph NNW

Description of work performed by contr. this report period:

- 0940 – 1200: M. Passaro onsite at Riverside Park. Dredging operation is in progress.
 - Confirmed with Roy that dredging began at 0830 this morning into the high profile scow which is drafting approximately 5 ft. No odors or sheens were observed and cycle times range from 60-70 seconds.
 - 1036: Spoke with Jen (Hill), transect sampling will take place on Wednesday morning at 7 am. Also, during transect sampling only composite samples will be collected. Air samples for today were deployed for PCBs.
 - 1132: Conducted site walk of air monitoring stations:
 - PMS#1, PMS#2, and PMS#3: Equipment is in good condition and both were running.
 - In River Unit: Unit is upwind of dredging and appears to be in good condition.
 - Mobile Unit: Located in park and in good condition.
 - 1200: M. Passaro offsite to field facility. Checked in with AECOM on upcoming sampling regiment. Which they will be starting tomorrow and working upriver to avoid traffic within the navigation channel due to all the scows being onsite. Two full sets of split sample bottleware are onsite.
- 1305-1605: M. Passaro back onsite at Riverside Park. J. Rolfe (de maximis) is also onsite, who informed me that on Saturday a total of 622 CY of material were dredged during the day.
 - 1325: John also provided an update from the Clean Earth facility. 8 water trucks left the facility today and currently one scow was being emptied while the other was being dewatered. Tonight



both scows will be transported upriver. Meaning that all 4 scows will be onsite at one time until the end of day on Tuesday.

- 1432: Scow is currently drafting 7.5 ft.
- 1600: Dredge operator is washing side of scow. Scow is currently drafting approximately 9 ft. Crew members are measuring down to material along perimeter of scow.
- 1605: Roy (Hill) confirmed that dredging is completed for the day.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer: None

Sampling and Analyses:

- Riverside County Park: Composite sampling occurred today (PCBs). Real-time monitoring of VOCs, H2S and dust is ongoing. Noise monitoring is ongoing as well.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day. All five Buoys are functioning correctly and reporting to the monitoring website. Buoy 5 experienced elevated turbidity levels at 1515 today. Levels have since dropped back down below 30 NTUs.
- In-River Air Monitoring: unit is in proper place and is upwind of dredge operations today.
- Transect Surface Water Sampling: No sampling took place today. Transect sampling will be taking place Wednesday morning at 7 am.

Deviation from Monitoring Plan/Design	Description & Reason
None Today	

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.



Site Visitors	Representing
John Rolfe	de maximis
Stan Kaczmarek	de maximis
Roy	CH2M Hill
Jen Wilkie	CH2M Hill
Taylor	CH2M Hill
Joe (QC)	CH2M Hill
Meredith Passaro	CDM Smith

Site Representative: Meredith Passaro

Date: 23-September-2013

Representative's signature:



Dredge Operation 09232013



Good Recovery Near the Shoreline



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 24-Sep-2013	Report #: lpr_rm_10.9_Sep-24
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Scattered Clouds	Scattered Clouds
Temperature	50 F	75 F
Wind Direction	4.6 mph WNW	13.8 mph SW

Description of work performed by contr. this report period:

- 0810-1700: Dredging continued today in the area north of the no-dredge zone, approximately 50 yards south of the fire department boat launch. Per Todd King (GLDD), dredging was performed around transect 23+10 today.
 - Four scows and three tugs were stationed at RM 10.9 today. They included the two filled high-profile scows and the two empty low-profile scows.
 - A slight sheen was observed on the water surface near the fire department boat launch, at 0830. This has been observed before. The sheen was brought to Stan Kaczmarek's attention, and he said that he was aware of it and that a response can/will be initiated if it becomes a bigger issue. The sheen was no longer visible by the late morning.
 - Dredge cycles were approximately 60-90 seconds long. A good seal was observed on most passes of the environmental bucket.
 - The "Chubby" low-profile scow was filled at approximately 1400 and repositioned south of the dredge area. It is drafting approximately 9.5 feet and, along with the two high-profile scows, will be moved downriver tonight.
 - Dredging was still ongoing at 1700, with the Stymie scow drafting approximately 4.5-5 feet. An observation will be recorded tomorrow morning to approximate how late dredging proceeded today.



- GLDD will continue dredging tomorrow and will fill the “Stymie” low-profile scow. This will be the only available scow.
- AECOM were on-site today taking core samples for SSP2. Their activities had no impact on the dredging.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1000: The weekly progress meeting was held at the field office on Madison Street. Personnel from GLDD, Clean Earth, CH2M Hill, de maximis, CDM Smith and EPA were either present or included via telephone. Topics of discussion included health and safety, weekly and cumulative progress, and air and water quality monitoring. Details of note include the following:
 - 10,500 cubic yards of material have been dredged to date and 660,000 gallons of water have been processed at Clean Earth
 - SSC sampling has been discontinued for now, but some confusion was encountered regarding whether or not it will be restarted (even if only for a short time) at the beginning of capping, or if dredging continues longer than expected. de maximis/CH2M Hill thought SSC sampling was finished altogether. The matter was left to be resolved offline.
 - EPA have yet to receive a sampling plan for the hard-packed/rocky area in Area 1 that was not excavated and has not been cleared by the bathymetry survey. EPA suggested that there is a risk that GLDD could “finish” dredging next week but then find out that this area needs to be revisited. de maximis/CH2M Hill stated that they will provide information as soon as possible.
 - EPA was asked whether the potential government shutdown on October 1st could impact the project. They said they would keep all parties informed. Mike Hoppe later received word that a shutdown would be unlikely to impact the project.
- 1030: Some of the topics covered in the weekly progress meeting carried over into post-meeting discussion between Mike Hoppe (EPA), Jen Wilkie (CH2M Hill), and Stan Kaczmarek (de maximis):
 - Mike verbally approved reducing COPC air sampling to one cycle per week. A cycle is comprised of PM10/mercury, PCBs and Dioxins at any given location over the course of three days.
 - de maximis/CH2M Hill implied that they are planning on submitting a capping plan for the hard-packed/rocky area, as opposed to the sampling plan that EPA has asked for. This may not suffice.
 - There was some discussion about whether a silt curtain will be required for the capping portion of the project. This will be resolved later.

Sampling and Analyses:

- Riverside County Park: 24-hour composite samples were collected for PCB analysis. 24-hour composite samples were deployed for Dioxin analysis. These will be the last COPC samples deployed this week, as the 3-day cycle is complete.



- Real-time monitoring of VOCs, H2S and dust took place today. All three stations (PMS #1, PMS #2 and the mobile unit) were observed in working order. The mobile unit was stationed in the park downwind of the dredging operation and the loaded scows.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day. All five Buoys are functioning correctly and reporting to the monitoring website. All Buoys were below the 50 NTU exceedance limit.
- In-River Air Monitoring: The in-river air monitoring was stationed upwind of current dredging location.
- Transect Surface Water Sampling: Transect surface water sampling will resume tomorrow, and CDM Smith will collect a split sample from the Buoy 2 transect.
- Bathymetry Survey: No surveying was performed today.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: none

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
John Rolfe	de maximis
Mike Hoppe	EPA
Mike Holsinger	CH2M Hill
Jen Wilkie	CH2M Hill
Taylor	CH2M Hill
Dorian	CH2M Hill
Joe (QA)	CH2M Hill
Ben Hammond	CDM Smith



Site Representative: Ben Hammond

Date: 24-September-2013

Representative's signature:



Sheen Near Boat Launch

A slight sheen on the river surface was observed around 0830 but was no longer visible by mid-morning. This has happened before, and was brought to the attention of the CPG representative. They are prepared to take further action (set up booms) if it ever were to become more severe.



RM 10.9 Site Today

There was significant traffic at the site today, including four scows, three tugs and the dredge barge.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 25-Sep-2013	Report #: lpr_rm_10.9_Sep-25
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Partly Cloudy	Mostly Cloudy
Temperature	56 F	74 F
Wind Direction	3.5 mph W	3.5 mph Variable

Description of work performed by contr. this report period:

- 1130-1350: Dredging continued today but was limited to filling the remaining capacity of one scow.
 - GLDD waited until mid-day to begin, in order to take advantage of the high tide.
 - The "Stymie" low-profile scow was drafting nearly 7.5 feet at the beginning of the day, which indicates that GLDD continued until almost sunset yesterday. The scow was drafting 9-9.5 feet when dredging stopped today.
 - The observed dredge cycles were approximately 50-60 seconds long with little decanting or sediment release from the environmental bucket.
 - AECOM were on-site today taking core samples for SSP2 sampling. Their activities had no impact on the dredging.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1600: Spoke briefly with Stan Kaczmarek about tomorrow's activities.
 - Two scows will be moved upriver tonight and dredging will resume tomorrow.



Sampling and Analyses:

- **Riverside County Park:** 24-hour composite samples were collected for Dioxin analysis. A PCB sample was deployed at the in-river location as this week's in-river PCB sample died overnight on Monday. It will be collected tomorrow. No other COPC samples were deployed, as sampling is complete for the week.
- **Real-time monitoring of VOCs, H2S and dust** took place today. All three stations (PMS #1, PMS #2 and the mobile unit) were observed in working order. The mobile unit was stationed in the park downwind of the dredging operation and the loaded scows.
- **In-River Turbidity Monitoring:** Buoys 1 – 5 collect turbidity readings continuously throughout the day. All five Buoys are functioning correctly and reporting to the monitoring website. Buoy 1 briefly reported turbidity levels above 50 NTUs but did not trigger any action. All other buoys were below the 50 NTU exceedance limit.
- **In-River Air Monitoring:** The in-river air monitoring was stationed upwind of current dredging location.
- **Transect Surface Water Sampling:** Transect surface water sampling was performed today. Composite samples were collected at transects 1-3 between 0730 and 1030 before it was noted that dredging had yet to begin. The composite samples were recollected during active dredging, beginning at approximately 1145. All four transects were sampled, and CDM Smith collected a split sample from the transect 2 composite. The split sample will be analyzed for PCBs, Dioxins, POC/DOC, Mercury, Dissolved Mercury, and SSC.
- **Bathymetry Survey:** No surveying was performed today.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: none

Are atmospheric monitoring results acceptable? Yes.



Site Visitors	Representing
Stan Kaczmarek	de maximis
John Rolfe	de maximis
Mike Hoppe	EPA
Mike Holsinger	CH2M Hill
Jen Wilkie	CH2M Hill
Taylor	CH2M Hill
Andy Watson	CH2M Hill
Dorian	CH2M Hill
Joe (QA)	CH2M Hill
Ben Hammond	CDM Smith

Site Representative: Ben Hammond

Date: 24-September-2013

Representative's signature:



Low-Profile Scow Prior to Dredging

The low-profile “Stymie” scow was drafting nearly 7.5 feet this morning, leaving very little room for today’s activities. Consequently, dredging only took place for approximately 2-2.5 hours.



In-River Air Monitor and Mobile Water Quality Monitor

This photograph faces north. The in-river air monitor is located generally upwind of the dredge location, and mobile Buoy 5 is located south of the dredge location.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 26-Sep-2013	Report #: lpr_rm_10.9_Sep-26
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Scattered Clouds	Mostly Cloudy
Temperature	59 F	67 F
Wind Direction	10.4 mph N	9.2 mph SSE

Description of work performed by contr. this report period:

- 0730-1700: Dredging proceeded without delay at RM 10.9, progressing southward toward the no-dredge zone.
 - There were no sheens observed on the water surface.
 - The "Chubby" low-profile scow was brought upriver early this morning and filled today by 1400 (draft of approximately 9.5 feet). The high-profile scow was moved into place and was filled to a draft of approximately 5 feet by 1700.
 - Dredge cycles were approximately 50-60 seconds long with little sediment release from the environmental bucket on most cycles. Visible turbidity plumes were caused by some passes but there was no significant migration of the plumes. Furthermore, intentional decanting of the dredge bucket was observed on some passes. This was mentioned to John Rolfe, as discussed in the following section.
 - In general the dredged material was comprised of organic material. This has proven to be easier to dredge than the coarse, often rocky material encountered earlier in the project. Some rocky material continues to be present near the shore.
 - AECOM were on-site today taking core samples. Their activities had no impact on the dredging.



Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1000: Spoke briefly with Jen Wilkie about sediment sampling in the rocky/hard-packed area in Area 1.
 - Sampling will occur tomorrow (Friday, September 27th, 2013) at low tide. The sampling plan was submitted to EPA last night and was approved today. CDM will observe the sampling.
- 1600: Spoke to John Rolfe (de maximis) at Riverside Park about recent instances of the dredge operator allowing water to decant out of the environmental bucket and back into the river. John was aware of this and said it was discussed as a measure to limit the amount of water in the scows when they are delivered to Clean Earth. He said that they received approval to allow clear water to drain out of the top/sides of the bucket before emptying the contents into the scow. This is what I have observed – it has only occurred with relatively clear water.

Sampling and Analyses:

- Riverside County Park: No COPC samples were deployed because sampling is complete for the week.
- Real-time monitoring of VOCs, H₂S and dust took place today. All three stations (PMS #1, PMS #2 and the mobile unit) were observed in working order. The mobile unit was stationed in the park downwind of the dredging operation.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day. All five Buoys are functioning correctly and reporting to the monitoring website. Buoy 1 briefly reported turbidity levels above 50 NTUs but did not trigger any action. All other buoys were below the 50 NTU exceedance limit.
- In-River Air Monitoring: The in-river air monitoring was stationed upwind of current dredging location.
- Transect Surface Water Sampling: Transect surface water sampling was performed yesterday, September 25th. Another round of transect samples will be collected next week prior to the end of dredging.
- Bathymetry Survey: No surveying was performed today.

Deviation from Monitoring Plan/Design	Description & Reason
None	



	N/A
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Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: none

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Jen Wilkie	CH2M Hill
Taylor	CH2M Hill
Dorian	CH2M Hill
Joe (QA)	CH2M Hill
Ben Hammond	CDM Smith

Site Representative: Ben Hammond

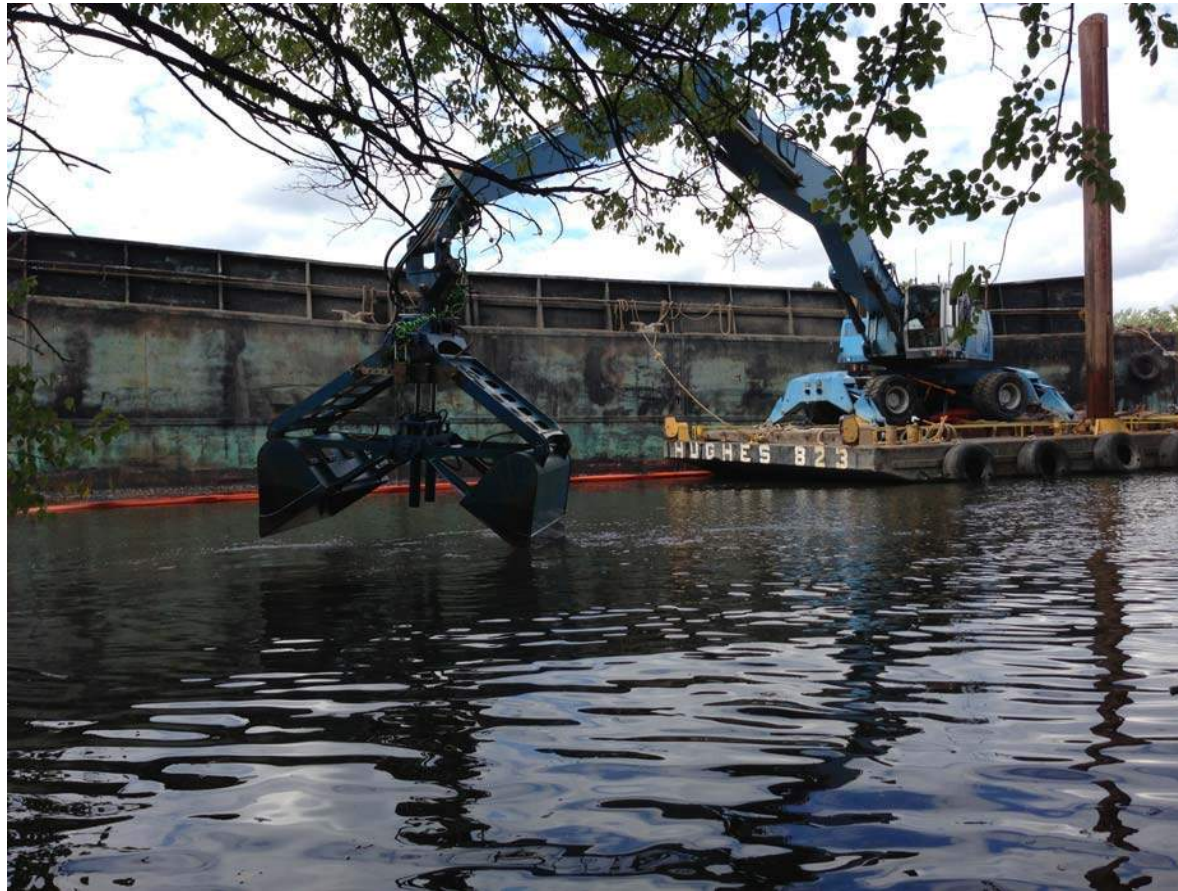
Date: 26-September-2013

Representative's signature



Low-Profile Scow Grounded at Low Tide

The low-profile “Chubby” scow was difficult to move at low-tide in the morning, but within a few hours the tide had come in substantially.



Loading the High-Profile Scow

GLDD began loading the high-profile scow at 1400 – at this point they are converging on the no-dredge zone and may arrive there this weekend.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 27-Sep-2013	Report #: lpr_rm_10.9_Sep-27
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Mostly Cloudy	Overcast
Temperature	57 F	67 F
Wind Direction	11.5 mph N	10 mph NNE

Description of work performed by contr. this report period:

- 1030: CH2M Hill were on-site at Riverside Park to perform sediment sampling and probing in the under-dredged areas in Cuts 4T and 6T. In the course of marking out their locations it was quickly determined that they would be unable to complete the sampling from the shore, as the tide had already come in substantially. They decided to use an OSI boat to sample in the afternoon and, given time constraints, leave the probing activity until tomorrow morning.
- 1230-1630: Dredging continued at RM 10.9, progressing southward toward the no-dredge zone.
 - Only one scow was available today, and it was already drafting approximately 6 feet at the beginning of the day. Dredging did not begin until later in the day in order to avoid low tide.
 - Dredge cycles were approximately 50-60 seconds long with little sediment release and decanting. Few turbidity plumes were observed and the silt curtain was observed to be in working condition. There were no visible sheens on the water surface.
 - Dredging ended around 1630 with the high-profile scow drafting approximately 9 feet.
 - AECOM were on-site today taking core samples. Their activities had no impact on the dredging.
- 1240-1410: CH2M Hill (Jen and Andy) arrived in a boat at Cut 4T to begin the sediment sampling.
 - All seven locations were sampled successfully using a push-core, and a duplicate was collected



from one of the two locations in Cut 6T (location 7).

- Dedicated trays/trowels were used for each location, and the push-core tube was rinsed between locations.
- Sufficient sediment volume was gathered at each of the proposed locations. In nearly every case, however, more than one attempt had to be made with the push-core because rock fragments would compromise the seal at the bottom of the sampling tube and some of the sediment would be lost out the bottom.
- The tube gathered six or more inches of sediment at each location.
- The samples will be shipped to the lab today for a quick analysis turnaround, as specified in the sampling plan.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1000: Spoke briefly with Jen Wilkie about sediment sampling in the rocky/hard-packed area in Area 1.
 - Sampling will occur tomorrow (Friday, September 27th, 2013) at low tide. The sampling plan was submitted to EPA last night and was approved today. CDM will observe the sampling.
- 1430: Spoke to John Rolfe (de maximis) at Riverside Park, who mentioned the following:
 - Clean Earth shipped out 19 trucks of sediment and 7 trucks of water today. They were limited because there was an accident on the road near the facility (not related to this project) that shut down traffic flow for the rest of the day.
 - There have been a few minor injuries at Clean Earth (a bumped elbow requiring an x-ray, for example) and today a truck started to drive away with a water hose still attached. In the latter case there was no spillage because all the valves were closed but it is counted as a near-miss and the driver was instructed not to return to the site.
 - Three empty scows will be brought upriver tonight in preparation for tomorrow's dredging activities.

Sampling and Analyses:

- Riverside County Park: No COPC samples were deployed because sampling is complete for the week.
- Real-time monitoring of VOCs, H₂S and dust took place today. All three stations (PMS #1, PMS #2 and the mobile unit) were observed in working order. The mobile unit was stationed in the park downwind of the dredging operation.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day. All five Buoys are functioning correctly and reporting to the monitoring website. All buoys remained below the 50 NTU exceedance limit.
- In-River Air Monitoring: The in-river air monitoring was stationed upwind of current dredging



location.

- Riverbed Sediment Sampling: Samples were collected from seven locations in the portions of Cuts 4T and 6T that were not dredged to the design depth. The samples will be analyzed for PCBs, Dioxins, PAHs and Mercury. Refer to the first section of this report for further details.
- Transect Surface Water Sampling: Transect surface water sampling is complete for the week.
- Bathymetry Survey: No surveying was performed today.

Deviation from Monitoring Plan/Design	Description & Reason
Use of push-core to collect sediment samples in Cuts 4T and 6T.	The sampling plan specified either a ponar grab sampler or a stainless steel shovel. It was assumed that the samples would be collected from land. Because the samples were collected from a boat, the push-core was more suitable.

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: none

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Gary	CH2M Hill
Jen Wilkie	CH2M Hill
Taylor	CH2M Hill
Dorian	CH2M Hill
Joe (QA)	CH2M Hill
Ben Hammond	CDM Smith

Site Representative: Ben Hammond

Date: 27-September-2013

Representative's signature



Edge of Dredging Progress

This photograph faces south and shows the approximate edge of the cut as of this morning (September 27, 2013). The orange buoys in the left of the picture represent the boundaries of the no-dredge zone, which is about 20 yards away.



Sediment Sample Collection with Push Core

CH2M Hill collected sediment samples from seven locations by pushing the above-pictured tube approximately six inches into the riverbed, filling the remainder of the column with water, capping the top, and raising the tube and its contents onto the boat. They were able to collect sufficient volume at all of the proposed locations.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 28-Sep-2013	Report #: lpr_rm_10.9_Sep-28
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Partly Cloudy	Scattered Clouds
Temperature	58 F	73 F
Wind Direction	9.2 mph NNE	10 mph ENE

Description of work performed by contr. this report period:

- 0730-1200: Dredging continued at RM 10.9, progressing southward toward the no-dredge zone.
 - Both low-profile scows and one high-profile scow were moved upriver last night. GLDD were loading sediment into the high-profile scow.
 - At the start of the day dredging was occurring approximately 10-20 yards from the no-dredge zone.
 - Dredging paused at 1200 because the scow was grounded due to the low tide; did not resume until 1415 when the scow could be pushed toward the shore.
- 0900-1130: CH2M Hill (Jen, Taylor and Dorian) arrived on-site to perform sediment probing in the under-dredged portions of Cuts 4T and 6T. The purpose of the probing is to better understand why this area could not be dredged initially, determine if it could be revisited, and gather additional information to inform the modified cap design.
 - Using GPS coordinates to identify starting points, CH2M Hill laid out a 115' x 30' grid in Cut 4T and a 40' x 15' grid in Cut 6T with probing points every five feet within the grid.
 - Measurements were collected by probing straight down with a ½" diameter threaded steel rod and determining how deep the rod could penetrate the sediment before hitting rock (or otherwise impenetrable material). At locations that happened to be occupied by exposed rock a



zero was recorded; this happened a handful of times.

- Generally less penetration was recorded near the shore (0-8"); further into the channel it was not uncommon for the rod to penetrate up to 25" at some spots.
- 1415-1600: The tide came in enough to mobilize the scow and resume dredging:
 - The operator was performing cuts at the boundary with the no-dredge zone, meaning that this area is nearly complete.
 - Dredge cycles were generally around 60 seconds. The dredged material was mostly organic material with some sand, and a sufficient seal was observed on the environmental bucket during most passes. Turbidity plumes were minimal and contained within the silt curtain.
 - Dredging paused again at 1600 for unclear reasons. It may be because the scow is again grounded and they are waiting for high tide to resume.
- 1700-1730: GLDD resumed dredging, finished the area north of the no-dredge zone and were observed adjusting silt curtain in preparation for tomorrow's activities.
 - They will relocate to the not-yet-visited "finger" area and start dredging northward.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1100: Spoke to John Rolfe (de maximis) at Riverside Park, who mentioned the following:
 - Clean Earth plans to send 50 sediment trucks to the rail yard today; this would be a productive day to make up for delays they encountered yesterday.
 - GLDD plan to finish the area north of the no-dredge zone today.

Sampling and Analyses:

- Riverside County Park: No COPC samples were deployed because sampling is complete for the week.
- Real-time monitoring of VOCs, H₂S and dust took place today. All three stations (PMS #1, PMS #2 and the mobile unit) were observed in working order. The mobile unit was stationed in the park downwind of the dredging operation.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day. All five Buoys are functioning correctly and reporting to the monitoring website. All buoys remained below the 50 NTU exceedance limit.
- In-River Air Monitoring: The in-river air monitoring was stationed upwind of current dredging location.
- Transect Surface Water Sampling: Transect surface water sampling is complete for the week.
- Bathymetry Survey: No surveying was performed today.



Deviation from Monitoring Plan/Design	Description & Reason
Change in probing location layout from “plus-sign” layout to full grid.	The proposed layout was consisted of primary points 20 feet apart, with four additional points located 5 feet in every direction from each primary point. It was determined that it would be simpler, and not overly arduous, to lay out full grid instead with points every 5 feet. As a result more locations were probed than initially planned.

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: none

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Gary	CH2M Hill
Jen Wilkie	CH2M Hill
Taylor	CH2M Hill
Dorian	CH2M Hill
Joe (QA)	CH2M Hill
Ben Hammond	CDM Smith

Site Representative: Ben Hammond

Date: 28-September-2013

Representative's signature



Layout of Probing Locations in Cut 4T

This photograph was taken around low tide. Flags were placed every five feet and poles were used for the in-water locations to form a 115' x 30' grid. The row shown in the center of this photograph was the eastern edge of the grid.



Sediment Probing in Cut 6T

A ½" diameter threaded steel rod was used to measure the depth of penetrable sediment. The depths varied largely and were greater away from the shore.



Dredging Progress Near No-Dredge Zone

Following a pause during low tide, dredging resumed in the afternoon. GLDD arrived at the northern boundary of the no-dredge zone and finished this area by the end of the day.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 29-Sep-2013	Report #: lpr_rm_10.9_Sep-29
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Partly Cloudy	Scattered Clouds
Temperature	58 F	69 F
Wind Direction	10 mph NNE	10 mph S

Description of work performed by contr. this report period:

- 0730-1030: GLDD finished dredging in the area immediately north of the no-dredge zone (this was previously believed to have occurred yesterday, but there were a few spots to wrap up today) then moved the barge and low-profile scow to the area north of the fire department boat launch.
 - The other low-profile scow is also available at RM 10.9.
- 1030-1800: GLDD began dredging around Station 27+00, moving northward. This is the "finger" portion of the dredging area that narrows as it extends north. Dredging proceeded without delay.
 - The dredged material was mostly organic and a good seal was observed on the environmental bucket. Debris was observed in many passes near the riverbank. Cycles were approximately 60 seconds.
 - Visible turbidity plumes were minimal and there were no sheens on the water surface. The silt curtain was observed in working order.
 - At Station 28+28, GLDD began encountering shallow rock/hard-packed material in passes near the riverbank.
 - GLDD will continue moving north tomorrow.



Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 0900: Spoke to Stan Kaczmarek (de maximis) at the field facility in Rutherford, who mentioned the following:
 - Stan stated that the plan is to “get as much of the uncapped area done as possible.”
 - He also mentioned that the CPG is already aware of a few high spots that will need to be revisited between the boat launch and the no-dredge zone.

Sampling and Analyses:

- Riverside County Park: No COPC samples were deployed because sampling is complete for the week.
- Real-time monitoring of VOCs, H₂S and dust took place today. All three stations (PMS #1, PMS #2 and the mobile unit) were observed in working order. The mobile unit was moved today, and is now located behind the day care center to be nearer the active dredging.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day. All five Buoys are functioning correctly and reporting to the monitoring website. All buoys remained below the 50 NTU exceedance limit.
- In-River Air Monitoring: The in-river air monitoring was stationed upwind of current dredging location.
- Transect Surface Water Sampling: Transect surface water sampling is complete for the week.
- Bathymetry Survey: No surveying was performed today.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: none

Are atmospheric monitoring results acceptable? Yes.



Site Visitors	Representing
Stan Kaczmarek	de maximis
Gary	CH2M Hill
Taylor	CH2M Hill
Roy	CH2M Hill
Joe (QA)	CH2M Hill
Ben Hammond	CDM Smith

Site Representative: Ben Hammond

Date: 29-September-2013

Representative's signature



Completed Area North of No-Dredge Zone

This photograph was taken around low tide facing south. The edge shown is the northern boundary of the no-dredge zone.



Mobile Air Monitoring Unit

The mobile air monitoring unit is shown in the background of this photograph. It was moved to be near the active dredging. It is now located behind the day care center, approximately 50 feet north of PMS #1.



Dredging Progress Around Transect 28+00

GLDD dredged until around 1800 and left off between Transects 29+00 and 30+00.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 30-Sept-2013	Report #: lpr_rm_10.9_Sept-30
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	55 F	70 F
Wind Direction	0.0 mph NNW	0.0 mph NNW

Description of work performed by contr. this report period:

- 0835 –0850: M. Passaro onsite at Field Office. Spoke with Gary (Hill) who said dredging began at approximately 0750 this morning.
- 0850 – 1200: M. Passaro onsite at Riverside Park. Dredging operation is in progress in the steep slope area.
 - J. Rolfe is onsite.
 - Full Scow “Stymie” is onsite, anchored in river and is drafting over 9 ft.
 - Low profile scow “Chubby” is currently being loaded and is drafting between 4.5 and 5 ft.
 - Observed buckets within 20 ft of the shoreline appear to be 60-80% water (rarely varies). Mostly trash and debris in clamshell buckets. Buckets dredged beyond 20 ft. of the shoreline appear to be only 10-30% water with good recovery.
 - Cycle times are ranging between 60-90 seconds.
 - 1040: Conducted site walk of air monitoring stations:
 - PMS#1, PMS#2, and PMS#3: Equipment is in good condition. Will need to confirm with Taylor tomorrow what samples were run today. The PIF samplers were not running thus PCBs/Dioxin were not sampled today. Most likely it was Mercury and PQ100.
 - In River Unit: Unit is upwind of dredging and appears to be in good condition.
 - Mobile Unit: Located in park across from dredging and is in good condition.
 - 1200: M. Passaro offsite to field facility. Will return to observe the sediment probing along the



steep sloped area north of the current dredging.

- 1235-1513: Sediment probing was conducted along the shoreline. A total of 61 locations were probed each separated by 10-13 feet. In summary, the probing demonstrated that the depth of sediment along the shoreline varied greatly from point to point.
 - At 37 out of the 61 locations, a second attempt was made at probing the sediment due to rock that was encountered resulting in 0 inches of progression on the first attempt.
 - At 31 of the 61 locations, 10+ inches of sediment was encountered on either the first or second attempt at probing. Of the 31 locations, 20 of these locations resulted in progression of over 24 inches.
 - At 22 of the 61 locations only 0-5 inches of progression was made after the second attempt.
- 1530-1700: M. Passaro is back onsite at Riverside park. Dredge operation is still ongoing. Scow is currently drafting approximately 9 ft.
 - 1645: Dredging operator is currently washing off side of scow, dredging is completed for the day. Scow is drafting between 9.5 and 10 ft.
 - 1700: M. Passaro is now offsite.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer: None

Sampling and Analyses:

- Riverside County Park: PIF samplers were not running today, will need to confirm tomorrow morning that samples were deployed for Mercury/PQ100 today. Real-time monitoring of VOCs, H2S and dust is ongoing. Noise monitoring is ongoing as well.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day. All five Buoys are functioning correctly and reporting to the monitoring website. Buoy 5 experienced elevated turbidity levels at 1300 today. Levels dropped back down below 30 NTUs within the hour.
- In-River Air Monitoring: unit is in proper place and is upwind of dredge operations today.
- Transect Surface Water Sampling: No sampling took place today. Transect sampling will take place Tuesday after the weekly update meeting.

Deviation from Monitoring Plan/Design	Description & Reason
None Today	

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None



Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Stan Kaczmarek	de maximis
Gary Foster	CH2M Hill
Roy	CH2M Hill
Taylor	CH2M Hill
Jeff	OSI
Meredith Passaro	CDM Smith

Site Representative: Meredith Passaro

Date: 30-September-2013

Representative's signature:



Dredge Set-Up

Taken from area where sediment probing was taken place, directly north of the dredging.

Mobile Air Monitoring Station

Unit is relocated across from current dredging activities



No Dredge Zone

Cuts at No Dredge Zone at low tide





United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 01-Oct-2013	Report #: lpr_rm_10.9_Oct-01
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Partly Cloudy
Temperature	55 F	80 F
Wind Direction	0.0 mph	0.0 mph

Description of work performed by contr. this report period:

- 0723 –0935: M. Passaro onsite at Riverside Park.
 - Dredging has not yet started today; there are currently no new scows onsite to dredge into today.
 - Currently the silt curtain is in two pieces.
 - 0731: Two high profile scows arrived onsite.
 - 0800: Crew is reconnecting the silt curtain.
 - 0910: Silt curtain is in bad condition-Crew is repairing it.
- 1000 – 1045: Weekly status meeting: please refer to discussion notes.
- 1050 – 1120: M. Passaro back onsite at Riverside Park.
 - Large profile scow is in place next to dredge barge which is currently drafting 4 ft.
 - Barge is currently 20-30 ft off shoreline, recovery is good, good seal.
 - Cycle times are 60-90 seconds.
- 1150-1450: M. Passaro onsite at boat launch for transect sampling. Accompanied by Andy (Hill) and Jeff (OSI).
 - 1244: Arrived at Buoy#1 for transect sampling.
 - Collected sample at 1302.
 - 1315: Arrived at Buoy#2 for transect sampling.
 - Collected sample at 1323.



- 1350: Arrived at Buoy#3 for transect sampling.
 - o Collected sample at 1358.
- 1420: Arrived at Buoy#4 for transect sampling.
 - o Collected sample at 1429
- 1522-1605: M. Passaro onsite at field facility.
 - J. Rakowski onsite at field facility to collect split samples.
 - 1545: Split sample collected for Transect 2 by CDM Smith.
 - 1555: J. Rakowski offsite with samples from field facility.
- 1625- 1700: M.Passaro onsite at Riverside Park. Dredging is still in progress.
 - Scow is drafting approximately 8 ft.
 - 1700: M. Passaro is offsite for the day, will check final draft of scow tomorrow.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- Weekly Status Meeting:
 - o For the sediment samples taken last week the earliest the lab will be able to return the results will be this Thursday, if the results are not able to be turned around in time, they will be ready by the following Monday.
 - o The tentative schedule for the end of dredging is as follows:
 - All dredging will be done by Oct. 2nd. (this may be flexible by a day or two). According to the USACE, it's okay to dredge on the 3rd, but according to GLDD this will not work for some of their internal deadlines. Further discussion was held after the meeting to come to a resolution.
 - Dredging will continue up to Cut 10 (St. 32), dredging will not cut into the rock slope, but will be starting at the toe of the slope.
 - Final surveys will be done on Thursday Oct. 3rd.
 - All equipment must be out of the area by Oct. 8th since this is when repairs will begin on Bridge St. Bridge.
 - Tentative start date for the capping will be October 21st.

Sampling and Analyses:

- Riverside County Park: COPC Samples were deployed today for Mercury and PCBs. Real-time monitoring of VOCs, H2S and dust is ongoing. Noise monitoring is ongoing as well. Following up for Monday September 29, no COPC samples were collected.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day. All five Buoys are functioning correctly and reporting to the monitoring website.
- In-River Air Monitoring: unit is in proper place and is upwind of dredge operations today.
- Transect Surface Water Sampling: Transect sampling took place today. CDM Smith collected a split sample at Buoy#2. Sample time was 1545. Groundwater parameters are as follows:



River Section	Time	Specific Conductivity	pH	Temp	Turbidity	DO	Depth	Salinity
<i>Far-shore</i>	1321	1.05	7.82	18.97	7.40	9.63	6.43	.59
<i>Middle</i>	1330	1.08	7.83	18.81	7.50	9.71	5.84	.61
<i>Near-shore</i>	1339	1.09	7.96	19.09	7.90	10.27	3.64	.61

Deviation from Monitoring Plan/Design	Description & Reason
None Today	

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Stan Kaczmarek	de maximis
Gary Foster	CH2M Hill
Roy	CH2M Hill
Taylor	CH2M Hill
Joe (QC)	CH2M Hill
Andy	CH2M Hill
Jeff	OSI
Mike Hoppe	USEPA
Jeff Rakowski	CDM Smith
Meredith Passaro	CDM Smith

Site Representative: Meredith Passaro

Date: 01-October-2013

Representative's signature:



Early Morning Silt Curtain Issues

Silt Curtain was redeployed this morning, some issues with the inflatable pieces on the top ripping out of the curtain. The curtain was previously moved the night before to avoid navigation issues with having both high profile and low profile scows on site. Curtain was rearranged when high profile scows were back onsite.

Dredge Operation Location

Dredging began this morning across from the newly elevated pump station.





United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 02-Oct-2013	Report #: lpr_rm_10.9_Oct-02
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Partly Cloudy
Temperature	55 F	86 F
Wind Direction	0.0 mph	9.0 mph WNW

Description of work performed by contr. this report period:

- 0850 - 1345: M. Passaro onsite at Riverside Park.
 - Dredging operation is not currently taking place. The high profile scow from yesterday is onsite and drafting approximately 9 ft.
 - The bathymetry survey is currently being conducted in cuts 7-10.
 - Dredge barge is currently located by St. 32+0.
 - 0933: Conducted site walk of air sampling equipment:
 - PMS#1, PMS#2, and PMS#3 are all in good condition and running.
 - In-River Unit: is in proper place upwind of dredging and is running.
 - Weather Station: Equipment is in good condition and running.
 - Mobile unit: equipment is in good condition and in proper position.
 - 1016: Discussion between de maximis, CDM Smith, and EPA (see discussions)
 - 1100: Spoke with Roy, dredging has still not started for the day. He said GLDD is still waiting on the completed surveys of cuts 7-10 before starting.
 - 1147: Dredging has yet to start; crew members are beginning to untangle the silt curtain.
 - 1200: Discussion with Stan regarding updated schedule of events. (see discussions)
 - 1307: Tug boat is beginning to move empty high profile scow into place beside dredge barge.
- 1350 – 1645: Dredging operation begins in the 8-9 T area. Scow is drafting approximately 4 ft.
 - 1350: Dredging has stopped again.
 - 1453: Was just informed by Stan that the reason dredging has stopped is because a chain from



the silt curtain is caught in the engine of the tug boat, which is unable to move the scow and dredge barge around the site.

- 1500: Dredging begins again. Cycle times are ranging from 60-90 seconds. Recovery is good and a clean seal is observed.
- 1526: Just received word from J. Rolfe that GLDD is going to need to bring a diver in to complete the repairs on the tug. Survey boat is being used to move the dredge and scow down into the 8T and 7T areas. This has significantly slowed down the work.
 - o Taylor (Hill) and Joe (Hill) are onsite to conduct additional sediment probing.
- 1602: Totals from the CE Facility today are 45 soil trucks and 5 water trucks. All of the two scows have been emptied.
- 1633: Sediment probing is completed and the dredging operation has stopped again.
- 1650: M. Passaro is offsite for the day. Dredging is planned to continue until 2030 tonight with the hope of finishing the rest of the re-dredge areas.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1016: M. Hoppe (EPA), J. Rolfe (de maximis), and S. Kaczmarek (de maximis) all onsite.
 - o Discussed the current state of the silt curtain and how it had been torn to the point that it was questionable whether it was functioning properly on-site. It was recognized that it is the end of the project, but recommended that future uses of the silt curtain be maintained.
 - o It was also discussed that surveys of cuts 7-9 were released this morning. It is anticipated that the red outlined areas are re-dredged today and that the black outlined areas are further investigated.
 - o Also recommended that 4T and 6T areas would need to be gone back to. There was still enough sediment left within the 4T area to not properly clear it.
 - o Lastly, 8 buckets of sediment were removed from the "hot zone" at 0720 this morning in cut 10, where the barge is currently positioned.
- 1200: M. Hoppe (EPA), J. Rolfe (de maximis), and S. Kaczmarek (de maximis) all onsite. Discussion regarded the updated series of events to follow today.
 - o All equipment will stay onsite until Friday night, which means that dredging can take place until that point in time. However, after Friday night all equipment will be moved offsite.
 - o BSB repairs are expected to take place from October 8th through the 14th.
 - o The two low profile scows currently at the Clean Earth facility will be emptied today and then decontaminated tomorrow.
 - o The two high profile barges currently onsite will theoretically be emptied by next Monday and then decontaminated the following day. The Clean Earth facility should be fully decontaminated and back online for additional work load within two weeks following the end of dredging.
 - o The Weekly status meeting for next week will discuss more firm dates for the capping to begin. Mobilization is currently expected to take place after the regatta on Columbus Day weekend up until the 21st of October.

Sampling and Analyses:

- Riverside County Park: COPC Samples were deployed today for Dioxins
Real-time monitoring of VOCs, H₂S and dust is ongoing. Noise monitoring is ongoing as well.



- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day. All five Buoys are functioning correctly and reporting to the monitoring website. At Buoy#3 there were spikes upwards of 80 and 65 NTUs, however these took place in the early morning (between 2:30 and 3:30 am) and were not associated with the dredging.
- In-River Air Monitoring: unit is in proper place and is upwind of dredge operations today.
- Transect Surface Water Sampling: Transect sampling did not take place today.

Deviation from Monitoring Plan/Design	Description & Reason
None Today	

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Stan Kaczmarek	de maximis
Gary Foster	CH2M Hill
Roy	CH2M Hill
Taylor	CH2M Hill
Joe (QC)	CH2M Hill
Mike Hoppe	USEPA
Meredith Passaro	CDM Smith

Site Representative: Meredith Passaro

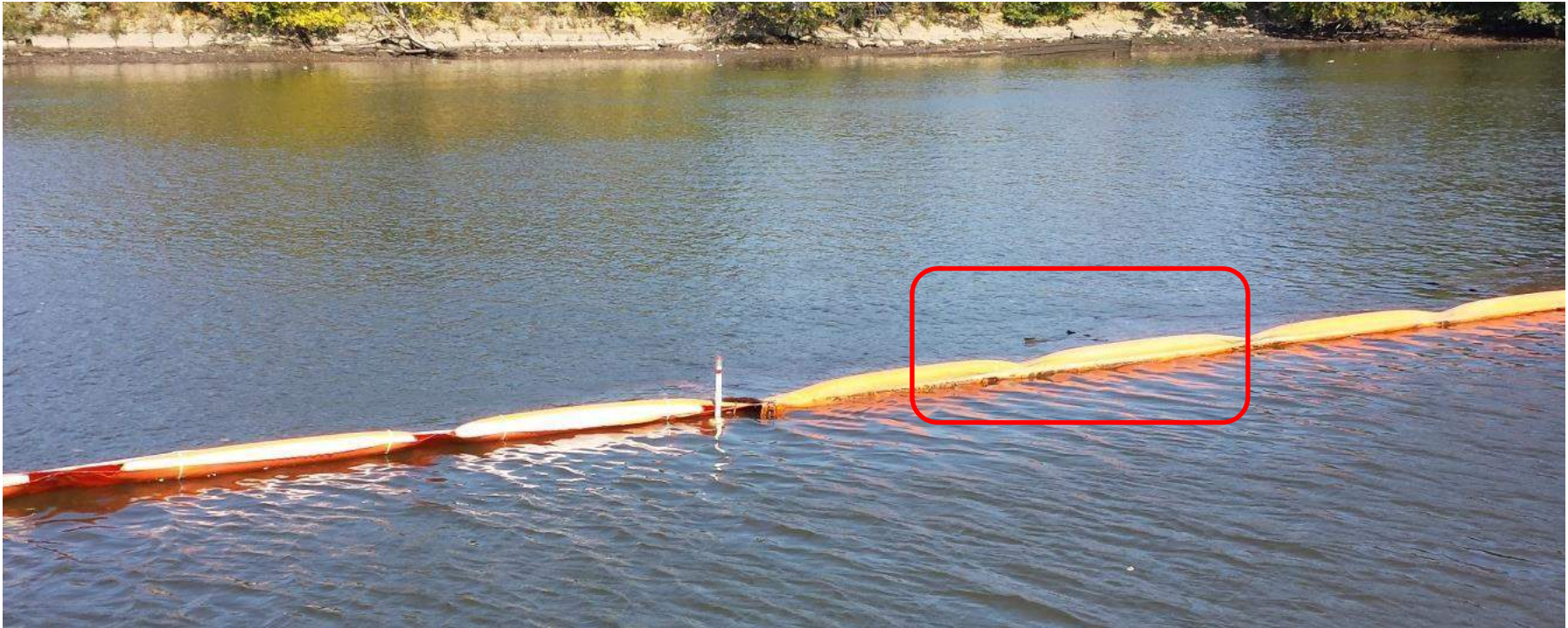
Date: 02-October-2013

Representative's signature:



Onsite High Profile Scows

The Full and Empty Scow from this morning. The Full scow is drafting approximately 9 ft.



Silt Curtain Issues_1

Easy to see tearing along the “curtain” portion within the river.



Silt Curtain Issues_2

The inflatable portion of the curtain had been roped shut to keep the pieces from floating away.



Dredging within 8-9T

Correction dredging continued in the afternoon despite setbacks with the Tug boat.

Soil Probing Along 6T and 4T

CH2M Hill conducted additional Soil probing along the shoreline in the hard-pan areas of 4T and 6T.





United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 03-Oct-2013	Report #: lpr_rm_10.9_Oct-03
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Partly Cloudy
Temperature	64 F	80 F
Wind Direction	2.0 mph W	4.0 mph SSE

Description of work performed by contr. this report period:

- 1020-1242: M. Passaro onsite at Riverside Park.
 - J. Rolfe, S. Kaczmarek, and M. Hoppe are all onsite. It was discussed that last night a Health and Safety incident occurred. The dive team that was called in to fix the engine of the tug boat did not have the proper PPE on for the "hot zone" they were working in. This included wet suits. The fire and police squad arrived onsite around 8 pm last night to mitigate the situation.
 - The dredge operation is currently ongoing. Dredging began at 0730 this morning. Currently work is being done in the 7T area adjacent to the No dredge zone. S. Kaczmarek discussed that the area being worked on had only been a single pass in the initial dredge, which is why there is a significant amount of material left over.
 - Good recovery of material is observed, buckets of sediment are full and the clamshell exhibits a clean seal.
 - 1115: The barge is currently being moved upriver to the 9T area to further investigate/dredge the areas outlined within black on the current survey. This is also the area in which sediment probing was conducted yesterday.
 - 1138: Dredging operation begins again. Recovery is good in the first few buckets, it should be noted that despite the debris being extracted, the bucket is able to maintain a good seal.
 - 1214: Barge is moved back to the boat launch area of 9T to try and recover more material. This is the largest of the "to be re-dredged" areas on the current survey.
 - Material recovered is mostly rock and debris along shoreline. Good recovery is not



observed and buckets are approximately 80% water.

- 1230: Scow is currently drafting 5 to 5.5 ft. Cycle times are ranging from 60-70 seconds. Approximately 15 ft. off the shoreline a few buckets of good recovery are observed.
- 1242: Dredge operator is washing off side of scow. We received word that dredging is done for the day and the 7-9T areas will be re-surveyed the rest of the day. The survey results will be available tomorrow morning. The 4T area will be dredged in the morning starting at 0730.
- 1430-1624: Additional sediment sampling takes place onsite.
 - 1430: One sediment sample is collected. Onsite crew forgot the appropriate decontamination materials and has gone back to the field facility for additional Alcon ox solution. There are still 3 more sediment samples to collect.
 - 1531: Additional sediment sampling is complete. Sediment sampling took place in 9T in the hard pan areas outlined in black on the current survey, 2 of the 4 samples were collected from the surface due to the low tide. The other 2 of the 4 samples were collected using a Ponar device since they were below the water surface. All of the samples collected today coincide with the areas that were re-dredged earlier in the day.
 - 1624: M. Passaro offsite for the day.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer: None

Sampling and Analyses:

- Riverside County Park: COPC sampling is completed for the week and no samples were deployed today.
Real-time monitoring of VOCs, H2S and dust is ongoing. Noise monitoring is ongoing as well.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day. All five Buoys are functioning correctly and reporting to the monitoring website. At Buoy#3 there were spikes upwards of 82 and 88 NTUs, these occurred two hours apart and are not believed to be related to the dredging. Levels dropped back below 50 NTU's within the hour.
- In-River Air Monitoring: unit is in proper place and is upwind of dredge operations today.
- Transect Surface Water Sampling: Transect sampling did not take place today.

Deviation from Monitoring Plan/Design	Description & Reason
None Today	

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None



Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Stan Kaczmarek	de maximis
Gary Foster	CH2M Hill
Roy	CH2M Hill
Taylor	CH2M Hill
Kevin	CH2M Hill
Joe (QC)	CH2M Hill
Mike Hoppe	USEPA
Meredith Passaro	CDM Smith

Site Representative: Meredith Passaro

Date: 03-October-2013

Representative's signature:

Re-Dredge in 9T

Re-dredging of the hard-pan areas in 9T outlined in black on the current survey.





United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 04-Oct-2013	Report #: lpr_rm_10.9_Oct-04
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Mostly Cloudy	Mostly Cloudy
Temperature	65 F	87 F
Wind Direction	6.9 mph SSW	9.2 mph WSW

Description of work performed by contr. this report period:

- 0730-0755: GLDD returned to Cut 4T and attempted to dredge the undercut areas.
 - They performed 10-12 passes of the environmental bucket. In general each pass was between one-quarter and one-half full of sediment. The final riverbed elevation appeared to have been lowered approximately six inches as a result of today's dredging. The final survey will verify the new elevations.
- 0800-1530: GLDD began demobilization activities at RM 10.9.
 - The silt curtain was disassembled, collected and deposited into the scow. It will be treated as waste and will not be reused. The entire silt curtain was removed by 1530.
 - The OSI survey boat was observed on the water during the morning. The results of the final survey were supposed to be made available by the CPG by noon today, however by the mid-afternoon they were still not published.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1000: Spoke to Stan Kaczmarek (de maximis) at the field facility in Rutherford, who mentioned the following:
 - Stan stated that GLDD plan to have all equipment demobilized from RM 10.9 by Saturday



evening.

- Confirmation sampling is planned for Wednesday, October 9th. CDM Smith will collect four split samples.

Sampling and Analyses:

- Riverside County Park: No COPC samples were deployed.
- Real-time monitoring of VOCs, H₂S and dust took place today. All three stations (PMS #1, PMS #2 and the mobile unit) were observed in working order.
- In-River Turbidity Monitoring: Buoys 1 – 5 collect turbidity readings continuously throughout the day. All five Buoys are functioning correctly and reporting to the monitoring website. All buoys remained below the 50 NTU exceedance limit.
- In-River Air Monitoring: The in-river air monitoring was stationed upwind of current dredging location.
- Transect Surface Water Sampling: Transect surface water sampling is complete for the week.
- Bathymetry Survey: The final survey was ongoing today.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: none

Are atmospheric monitoring results acceptable? Yes.



Site Visitors	Representing
Stan Kaczmarek	de maximis
Gary	CH2M Hill
Taylor	CH2M Hill
Roy	CH2M Hill
Joe (QA)	CH2M Hill
Mike Hoppe	EPA
Ben Hammond	CDM Smith

Site Representative: Ben Hammond

Date: 4-October-2013

Representative's signature



RM 10.9 During Demobilization

Most of Friday, October 4th, 2013 was spent by GLDD removing the entire silt curtain from the dredging area.



Silt Curtain Collection

The silt curtain deployed during dredging will not be reused; it was deposited into the high-profile scow pictured above and will be disposed of as waste.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 09-Oct-2013	Report #: lpr_rm_10.9_Oct-09
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Mostly Cloudy	Overcast
Temperature	52 F	63 F
Wind Direction	12.7 mph N	12.7 mph NE

Description of work performed by contr. this report period:

- 0700-1350: CH2M Hill performed post-dredging sediment sampling at 20 locations in the dredging area.
 - Samples were collected using a Ponar grab sampler. Sediment from the grab sampler was transferred into a location-specific tray and homogenized with a location-specific trowel before filling the sample bottles. The Ponar device was rinsed and scrubbed of residual sediment between locations.
 - Included in the 20 sample locations were 3-4 locations in Cut 10 that were beyond the northern extent of the area actually dredged by GLDD.
 - At location number 18 (Cut 10, #4), rocky material and/or debris prevented the Ponar device from collecting sufficient volume in 16 attempts. The grab sample was successfully collected on an attempt approximately 40 feet west of the intended location. The coordinates of the new location were within the dredging area but near its western edge.
 - CDM Smith collected five split samples: LPR-RM10.9RA-PDS-1T01-C (plus field duplicate), -3T01-C, -9-02-C and -10-02-C. They will be analyzed for PCBs, PAHs, Dioxins, Mercury and TOC.



Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 0900: The weekly progress meeting was held at the field facility in Rutherford.
 - The meeting minutes will be published by the CPG.

Sampling and Analyses:

- Post-dredging sediment sampling: 20 sediment samples were collected in the dredging area along with an equipment blank. Refer to the summary above for additional details. CDM Smith collected splits samples at locations 1 (Cut 1, #1), 5 (Cut 3, #1), 14 (Cut 9, #2) and 15 (Cut 10, #2). A field duplicate of the first split sample was also collected.
- All other air and water quality monitoring is suspended as dredging was completed on Friday, October 4th.

Deviation from Monitoring Plan/Design	Description & Reason
The sediment sample Cut 10 #4 was collected 40 feet west of the planned location	Rocky material and debris prevented the Ponar device from collecting sufficient sample volume in 16 attempts. The sample was collected after moving further away from the riverbank.

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: none

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Gary	CH2M Hill
Andy Watson	CH2M Hill
Taylor	CH2M Hill
Kevin	CH2M Hill
Kieran	CH2M Hill
Joe (QA)	CH2M Hill
Mike Hoppe	EPA
Ben Hammond	CDM Smith

Site Representative: Ben Hammond
Representative's signature

Date: 9-October-2013



Ponar Grab Sampler

The device is similar to a dredge bucket. It was used to collect the top 6"-9" of sediment at each location. The contents of the device were transferred into a tray using the trowel and then homogenized prior to filling sample bottles.



Grab Sampler Decontamination

The grab sampler was rinsed and scrubbed of residual sediment between locations.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 07-Nov-2013	Report #: lpr_rm_10.9_Nov-07
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Not Onsite	Light Rain
Temperature	Not Onsite	51 F
Wind Direction	Not Onsite	0 - 15 mph NW

Description of work performed by contr. this report period:

- 1630: capping equipment mobilized to RM 10.9 site. The following equipment is mobilized to the Fire Dept Boat Launch:
 - Two barges – one barge for Fuchs excavator and on-river office; one barge for CAT long-stick excavator, six super sacs of Aquagate, Mixing Hopper, conveyors and Telebelt unit
 - Two low-profile holding sand

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- Conference call with USEPA, USACE and CDM Smith discussing:
 - Lessons Learned during: document review, mobilization, and dredging phases of the project
 - H&S Concerns during capping activities (many moving parts, congested work area on the barges, cold temperatures affecting dexterity, etc)
 - Proposed changes to the CPG Monitoring Plans
 - Concerns on the CPG Capping Plans in the undercut areas

Sampling and Analyses:

- Riverside County Park: No active capping activities were taking place, therefore no air monitoring was set up at the time of inspection.
- In-River Turbidity Monitoring: Buoys 1 – 4 are set up to collect turbidity readings continuously.



The monitors were not active at the time of inspection because no active capping activities were taking place at the time of inspection.

- In-River Air Monitoring: No active capping activities were taking place, unit was not observed at time of inspection.
- Transect Surface Water Sampling: No active capping activities were taking place, therefore no transect sampling occurred today.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations.

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Amy Picunas	CDM Smith

Site Representative: Amy Picunas

Date: 7-November-2013

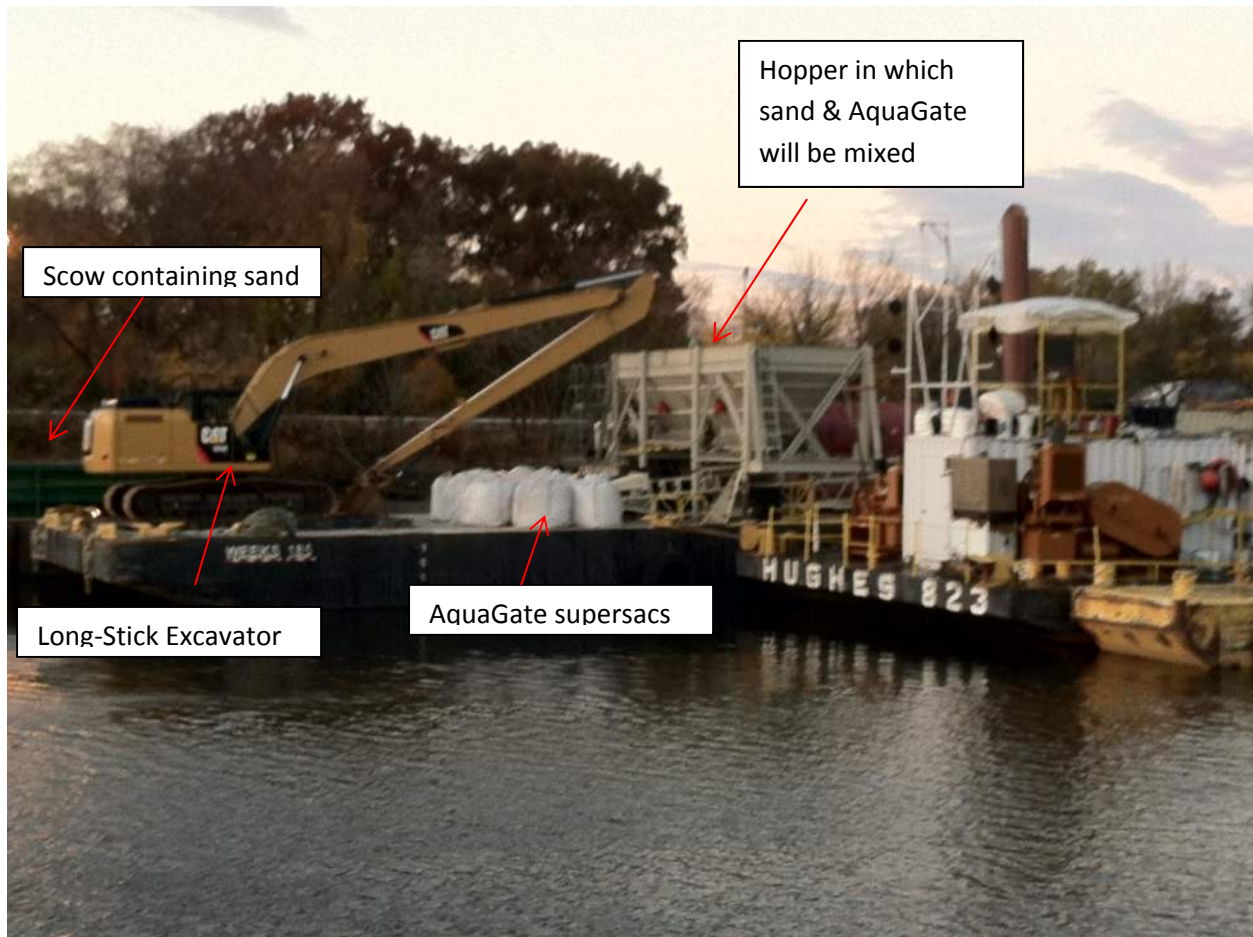
Representative's signature:



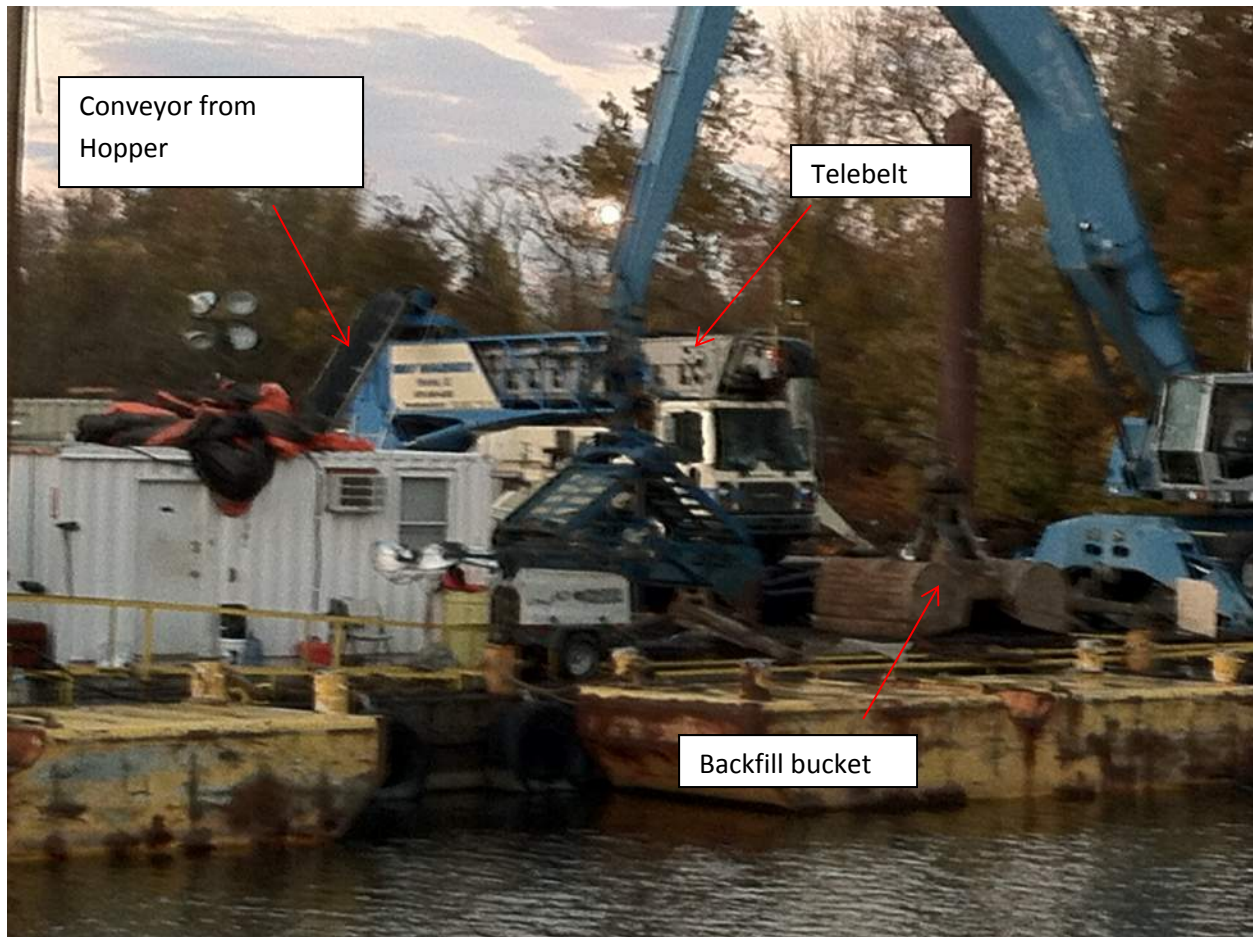
November 7, 2013 16:30: All capping equipment is mobilized to site, currently set up across from Fire Dept Boat Launch. Turbidity curtain deployed in foreground.



November 7, 2013 16:30: All capping equipment is mobilized to site, currently set up across from Fire Dept Boat Launch.



November 7, 2013 16:30: Close-up of AquaGate supersacs and hopper.



November 7, 2013 16:30: Close-up of conveyor belt from Hopper and Telebelt. The Telebelt will telescope out.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 08-Nov-2013	Report #: lpr_rm_10.9_Nov-08
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Partly Cloudy	Mostly Cloudy
Temperature	41 F	47 F
Wind Direction	0 - 15 mph W	0 - 14 mph WNW

Description of work performed by contr. this report period:

- 0930: accompanied J Rolfe (de maximis), R Weller and M Holzinger (CH2M Hill) onto the capping barges to observe a test run of the Mixing Hopper – Conveyors. The test run was intended to run sand only through the hopper and conveyors to ensure motors were working properly and belt systems were properly aligned. The test run was postponed to allow GLDD to mobilize the capping equipment to the south end of the RM 10.9 site during a high tide.
- After setting up at the south end of the site, GLDD spent the remainder of the day performing maintenance on motors. No capping activity/test placements occurred today.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- Discussion with J Rolfe today regarding potential bridge closures:
 - Per J Rolfe, the local bridge authorities have informed CPG that bridges will not be opened/closed during times when de-icing activities are occurring. This will include a number of hours prior to, during, and after freezing precipitation events and could cause a delay in capping activities.

Sampling and Analyses:

- Riverside County Park: No active capping activities were taking place, therefore no air monitoring was set up at the time of inspection.



- In-River Turbidity Monitoring: Buoys 1 – 4 are set up to collect turbidity readings continuously. The monitors were not active at the time of inspection because no active capping activities were taking place at the time of inspection.
- In-River Air Monitoring: No active capping activities were taking place, unit was not observed at time of inspection.
- Transect Surface Water Sampling: No active capping activities were taking place, therefore no transect sampling occurred today.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations.

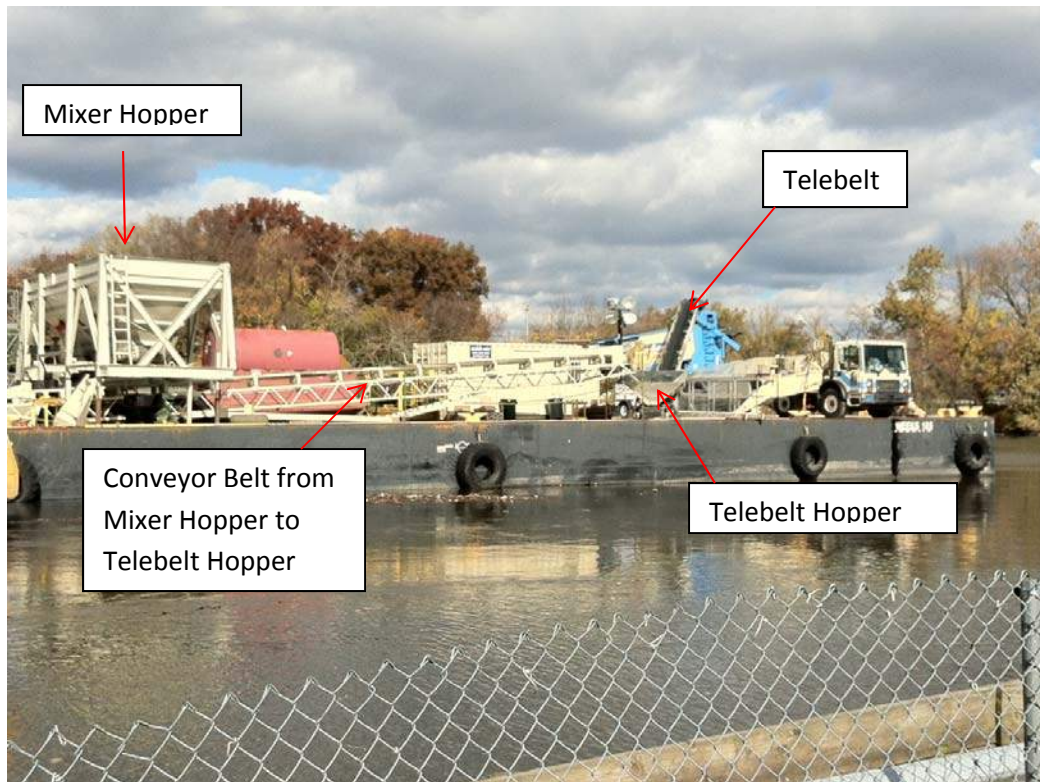
Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe Mike Holsinger Taylor Michael Hoppe Amy Picunas	de maximis CH2M Hill CH2M Hill USEPA CDM Smith

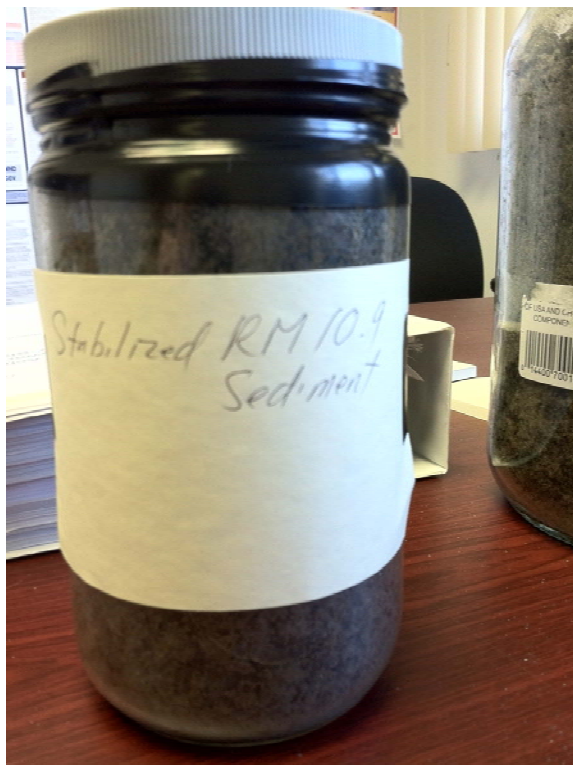
Site Representative: Amy Picunas

Date: 8-November-2013

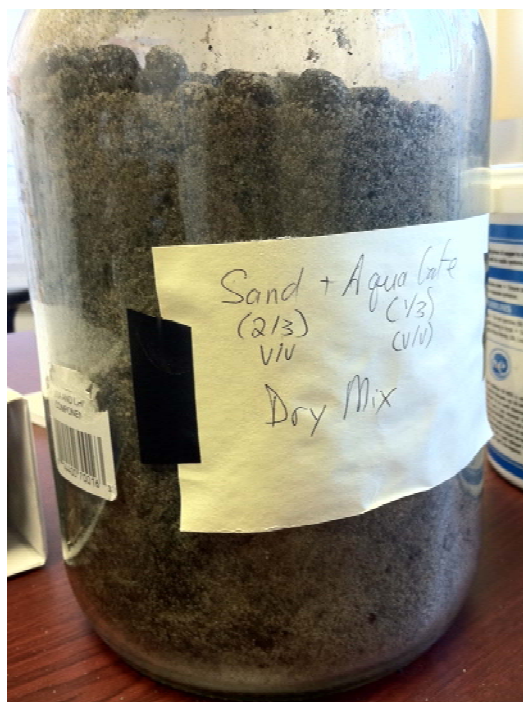
Representative's signature:



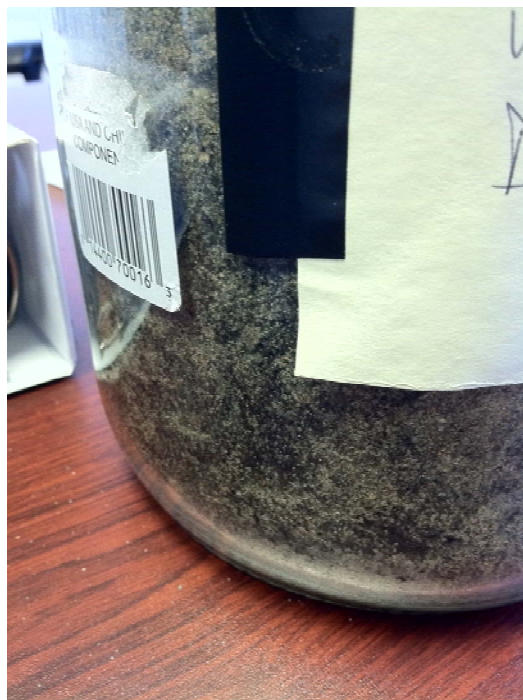
November 8, 2013 0930: Mixing Hopper and Telebelt barge, showing conveyor belts



November 8, 2013 0930: Benchscale Test, stabilized sand + Aquagate in water



November 8, 2013 0930: Benchscale Test, stabilized sand + Aquagate. Dry mix.



November 8, 2013 0930: Benchscale Test, stabilized sand + Aquagate . Dry Mix close-up, showing gradation between sand and activated carbon.



November 8, 2013 0930: Benchscale Test, stabilized sand + Aquagate in water column



November 8, 2013 0930: Benchscale Test, stabilized sand + Aquagate in water column, close-up. Showing gradation of sand and Aquagate in water.



November 8, 2013 0930: Benchscale Test, stabilized sand + Aquagate in water column, close-up. Showing gradation of sand and Aquagate in water.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 09-Nov-2013	Report #: lpr_rm_10.9_Nov-09
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Mostly Cloudy	Mostly Cloudy
Temperature	38 F	49 F
Wind Direction	0 - 8 mph W	0 - 9 mph SSW

Description of work performed by contr. this report period:

- 1230: GLDD performed a test placement of one (1) batch of sand/Aquagate mixture in the near shore at the southern end of the RM 10.9 site. No significant turbidity plumes were observed.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

■

Sampling and Analyses:

- Riverside County Park: No active capping activities were taking place, therefore no air monitoring was set up at the time of inspection.
- In-River Turbidity Monitoring: Buoys 1 – 4 are set up to collect turbidity readings continuously. The monitors were not active at the time of inspection because no active capping activities were taking place at the time of inspection.
- In-River Air Monitoring: No active capping activities were taking place, unit was not observed at time of inspection.
- Transect Surface Water Sampling: No active capping activities were taking place, therefore no transect sampling occurred today.



Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations.

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Taylor	CH2M Hill
Amy Picunas	CDM Smith

Site Representative: Amy Picunas

Date: 9-November-2013

Representative's signature:



November 9, 2013 12:30 – first test placement of sand-Aquagate mix. No significant turbidity plumes observed.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 11-Nov-2013	Report #: lpr_rm_10.9_Nov-11
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Overcast
Temperature	46 F	54 F
Wind Direction	5.8 mph W	10.0 mph SSW

Description of work performed by contr. this report period:

- No capping was performed today. GLDD spent the day performing maintenance on equipment. They hope to resume capping tomorrow morning once repairs have been made to the hopper.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- None

Sampling and Analyses:

- Riverside County Park: No active capping activities were taking place; therefore no air monitoring was set up at the time of inspection.
- In-River Turbidity Monitoring: Buoys 1 – 4 are set up to collect turbidity readings continuously. The monitors were not active at the time of inspection because no active capping activities were taking place at the time of inspection.
- In-River Air Monitoring: No active capping activities were taking place, unit was not observed at time of inspection.
- Transect Surface Water Sampling: No active capping activities were taking place, therefore no transect sampling occurred today.



Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Taylor	CH2M Hill
Joe (QA)	CH2M Hill
Ben Hammond	CDM Smith
Amy Picunas	CDM Smith

Site Representative: Ben Hammond and Amy Picunas

Date: 11-November-2013

Representative's signature:



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 12-Nov-2013	Report #: lpr_rm_10.9_Nov-12
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Light Snow	Clear
Temperature	36 F	38 F
Wind Direction	12.7 mph NNW	8.1 mph N

Description of work performed by contr. this report period:

- 0830: GLDD reported that a generator associated with the hopper on the capping barge failed. An electrician was on site in the morning to diagnose the problem. It was ultimately determined that the generator needed to be replaced. No capping was performed today.
- 2000: Stan Kaczmarek reported that the replacement generator was hooked up and all equipment energized. Capping should proceed in the morning on Wednesday, November 13.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- None

Sampling and Analyses:

- Riverside County Park: No active capping activities were taking place, therefore no air monitoring was set up at the time of inspection.
- In-River Turbidity Monitoring: Buoys 1 – 4 are set up to collect turbidity readings continuously. The monitors were not active at the time of inspection because no active capping activities were taking place at the time of inspection.
- In-River Air Monitoring: No active capping activities were taking place, unit was not observed at



time of inspection.

- Transect Surface Water Sampling: No active capping activities were taking place, therefore no transect sampling occurred today.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Taylor	CH2M Hill
Joe (QA)	CH2M Hill
Ben Hammond	CDM Smith

Site Representative: Ben Hammond

Date: 12-November-2013

Representative's signature:



Capping Delay

There was no capping at RM 10.9 today. The barges and scows remain at the southern end of the capping area. A generator associated with the hopper is being replaced and should be operable by tomorrow (Wednesday, November 13, 2013) morning.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 13-Nov-2013	Report #: lpr_rm_10.9_Nov-13
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	31 F	40 F
Wind Direction	5.8 mph NNW	13.8 mph NW

Description of work performed by contr. this report period:

- 0800-1200: Capping was delayed until midday. Despite successful operation of the hopper generator late last night, it failed to power up this morning. Repairs were performed throughout the morning.
- 1230-1630: Capping began at the southern edge of the RM 10.9 work area. Sand/AquaGate was applied in radial passes starting at the riverbank and moving toward the barge. The sand and AquaGate were, by visual estimation, sufficiently mixed coming off of the Telebelt. Two approximately half-hour-long delays were noted in the afternoon. Turbidity plumes were minimal and did not migrate far from the placement location. Dust generation off of the Telebelt was limited. Observed GLDD collecting push cores in the capped area to check material thickness.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1000-1030: The weekly progress meeting was held at the CPG facility in Rutherford, NJ. The meeting was attended either in person or via teleconference by personnel representing de maximis, CH2M Hill, GLDD, EPA, and CDM Smith. Some items of interest were as follows:
 - T. King (GLDD) indicated that the system would be operable by 1200 today and that full-scale operation would commence by tomorrow.
 - J. Wilkie (CH2M Hill) proposed that transect surface water sampling be postponed until Monday in order to sample after at least a couple of full capping days. EPA accepted this proposal.



- The Bridge St. Bridge may become inoperable again in the future (possibly after Thanksgiving) due to replacement of a drive shaft. While it was previously thought that bridge repairs were complete, the County recently informed CPG that additional work is required.
- S. Vaughn (EPA) reminded CPG that she is still awaiting the results of size/chemical testing of the armor layer material.
- The possibility of TOC testing remains unresolved and further discussion will take place between CPG and EPA after this meeting
- A citizen reported that his/her seawall had been damaged from the wakes created by boats associated with the RM 10.9 project. GLDD hired an independent marine surveyor who ruled that the damage was not caused by the project.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is ongoing at two mobile stations set up in the park near the capping operation. The stations are situated approximately 200 feet apart. One of the stations is also monitoring H₂S concentrations.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. The monitors were active and reported to the monitoring website throughout the day. No buoys experienced elevated turbidity readings associated with capping activities.
- Transect Surface Water Sampling: The first round of transect surface water samples will be collected on Monday, November 18th. Sampling was initially planned for this week but was postponed due to the delays in capping.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.



Site Visitors	Representing
Stan Kaczmarek	de maximis
John Rolfe	de maximis
Todd King	GLDD
Mike Holsinger	CH2M Hill
Taylor	CH2M Hill
Gary Foster	CH2M Hill
Joe (QA)	CH2M Hill
Ben Hammond	CDM Smith

Site Representative: Ben Hammond

Date: 13-November-2013

Representative's signature:



Capping in Progress

Capping proceeded through much of the afternoon. The above photograph faces north; the non-submerged portions of the capping area show the radial pattern followed by the operator.



Turbidity Plumes

Some visible turbidity is generated during placement of the sand/Aquagate mixture, however it tends to dissipate within 10-15 feet of the placement location.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 14-Nov-2013	Report #: lpr_rm_10.9_Nov-14
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	35 F	54 F
Wind Direction	10 mph SSW	12.7 mph SW

Description of work performed by contr. this report period:

- Continued generator failure prevented capping from progressing today, with the exception of a handful of passes. The capping operation ran momentarily around 0830, 1100 and 1330 but was halted each time by generator malfunction.
- GLDD will obtain a new generator this evening and install it first thing tomorrow. They will have two generators on the barge, one of which will act as a backup. They plan to continue capping by 0830-0900 tomorrow morning.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- Per Stan Kaczmarek, the push cores collected by GLDD in the capping area yesterday contained sand/AquaGate mixture at thicknesses of approximately 10 inches. Furthermore, they reported that the sand and AquaGate were being mixed at very near the specified ratio.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is ongoing at two mobile stations set up in the park near the capping operation. The stations are situated approximately 200 feet apart. One of the stations is also monitoring H₂S concentrations.
- In-River Turbidity Monitoring: Though there were no capping activities, Buoys 1 – 5 are set up to collect turbidity readings continuously. The monitors were active and reported to the monitoring



website throughout the day.

- **Transect Surface Water Sampling:** The first round of transect surface water samples will be collected on Monday, November 18th.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Taylor	CH2M Hill
Gary Foster	CH2M Hill
Joe (QA)	CH2M Hill
Ben Hammond	CDM Smith

Site Representative: Ben Hammond

Date: 14-November-2013

Representative's signature:



Sand/Aquagate Placed Yesterday

Capping was delayed today due to failure to get the generator running for an extended period of time. The above photo was taken around low tide and shows material that was placed yesterday. Push cores collected by GLDD contained sand/Aquagate at thicknesses of around 10 inches.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 15-Nov-2013	Report #: lpr_rm_10.9_Nov-15
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	40 F	59 F
Wind Direction	Calm	8.1 mph S

Description of work performed by contr. this report period:

- 0930-1615: Capping proceeded throughout the day without delay. A new generator was observed on the barge.
 - Sand/AquaGate was applied in radial passes. GLDD covered an entire area with a series of passes (comprising one lift) and then did this twice more over the same area. Three lifts were performed in total.
 - The sand and AquaGate appeared sufficiently mixed coming off of the Telebelt. There were some shoreline areas where high concentrations of AquaGate were observed on top of the sand, but this was mostly limited to the test areas visited earlier in the week. At those locations a higher volume of AquaGate than required had been deposited. Furthermore, areas with shallow water are noticeably darker as a result of the AquaGate placement. It will be necessary to observe and sample as needed to ensure that the AquaGate remains in place.
 - Turbidity plumes were minimal and did not migrate far from the placement location. GLDD collected push cores to check thickness of settled sand/AquaGate mixture.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- Per John Rolfe (de maximis) it is currently unknown whether capping will be performed on Monday, November 18th. Severe weather is predicted. A decision will be made early on Monday morning.

**Sampling and Analyses:**

- Riverside County Park: Real-time monitoring of particulates is ongoing at two mobile stations set up in the park near the capping operation. The stations are situated approximately 200 feet apart. One of the stations is also monitoring H₂S concentrations.
- In-River Turbidity Monitoring: Though there were no capping activities, Buoys 1 – 5 are set up to collect turbidity readings continuously. The monitors were active and reported to the monitoring website throughout the day.
- Transect Surface Water Sampling: The first round of transect surface water samples will be collected on Wednesday, November 20th.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Taylor	CH2M Hill
Gary Foster	CH2M Hill
Joe (QA)	CH2M Hill
Mike Hoppe	EPA
Ben Hammond	CDM Smith

Site Representative: Ben Hammond

Date: 15-November-2013

Representative's signature:



Capping Progress

Capping took place throughout the day. In the foreground of this photograph is the sand/Aquagate deposited earlier in the week.



Aquagate Placement

The shallow water turns dark when Aquagate is first deposited, suggesting some amount of carbon suspension. Furthermore, when one of the GLDD workers planted an oar in the capped sediment a small black plume was observed from the carbon in the Aquagate.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 16-Nov-2013	Report #: lpr_rm_10.9_Nov-16
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Shallow Fog	Clear
Temperature	46 F	59 F
Wind Direction	Calm	8.1 mph S

Description of work performed by contr. this report period:

- 0800-1615: Capping proceeded throughout the day without delay.
 - Sand/AquaGate was applied in radial passes. GLDD performed three lifts over each location to achieve the desired material thickness.
 - The sand and AquaGate appeared sufficiently mixed, both coming off of the Telebelt and in non-submerged capping areas at low tide.
 - Some turbidity plumes were observed, however they dissipated not far from the placement location. No turbidity action levels were met at the monitoring buoys.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- Per John Rolfe, a barge movement is scheduled for Saturday evening to replenish the supply of AquaGate supersacs.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is ongoing at two mobile stations set up in the park near the capping operation. The stations are situated approximately 200 feet apart. One of the stations is also monitoring H₂S concentrations.
- In-River Turbidity Monitoring: Though there were no capping activities, Buoys 1 – 5 are set up to collect turbidity readings continuously. The monitors were active and reported to the monitoring



website throughout the day.

- **Transect Surface Water Sampling:** The first round of transect surface water samples will be collected on Wednesday, November 20th.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Taylor	CH2M Hill
Gary Foster	CH2M Hill
Joe (QA)	CH2M Hill
Ben Hammond	CDM Smith

Site Representative: Ben Hammond

Date: 16-November-2013

Representative's signature:



Sand/Aquagate Mixture

The mixture of sand and Aquagate appears fairly well-mixed in the air and on the ground, as shown in the above photograph. It is difficult to confirm whether this is true as it settles in water.



Turbidity Plumes

Turbidity plumes such as the one shown above are not uncommon. They begin to dissipate quickly, however, and do not cause elevated turbidity readings at the downstream buoys.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 18-Nov-2013	Report #: lpr_rm_10.9_Nov-18
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Scattered Clouds	Partly Cloudy
Temperature	57 F	64 F
Wind Direction	8 mph SW	17 mph WSW

Description of work performed by contr. this report period:

- 0800-1430: No capping performed during this time.
 - GLDD spent the morning repairing conveyor belts for the hopper mixer and Telebelt system.
 - After repairing the belts, GLDD found the GPS unit on the Telebelt was not uploading live positional data. Before capping could resume, GLDD had to fix the GPS system.
 - GLDD had limited sand onsite; approximately only enough for 2 hours of capping.
- 1430-1630: Capping resumed.
 - Sand/AquaGate was applied in radial passes. GLDD performed three lifts over each location to achieve the desired material thickness.
 - The sand and AquaGate appeared sufficiently mixed, both coming off of the Telebelt and in non-submerged capping areas at low tide.
 - Some turbidity plumes were observed, however they dissipated not far from the placement location. No turbidity action levels were met at the monitoring buoys.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- Per John Rolfe, a barge movement is scheduled for tonight to replenish the supply of sand.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is ongoing at two mobile stations set up in the park near the capping operation. The stations are situated approximately 200 feet apart.



One of the stations is also monitoring H₂S concentrations.

- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. The monitors were active and reported to the monitoring website throughout the day.
- CH2M Hill collected multiple 4-inch diameter lexan tubes of the placed sand/AquaGate cap. The purpose of the samples is to perform visual confirmation that the placed cap meets the proper sand:AquaGate ratio (approximately 70% : 30%), and collect TOC samples. At least three samples were collected today.
- Transect Surface Water Sampling: The first round of transect surface water samples will be collected on Wednesday, November 20th.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: A Picunas (CDM Smith) and J Rolfe (dmi) observed a deckhand from GLDD performing an unsafe work practice:

- The deckhand was observed leaning over the mixer hopper while not being properly tied off (potential fall from a height hazard and potential crushing/engulfment hazard if he fell into the hopper)
- Additionally, the deckhand was observed positioning himself underneath an AquaGate supersac (potential struck by/crushed by/pinched by hazard) and then hand opening the supersac while in that position (potential engulfment hazard).
- The mixer hopper is equipped with a large spike meant to puncture openings in the bottom of the supersacs.
- J Rolfe immediately notified M Holsinger and G Foster at CH2M Hill regarding the unsafe activities, and the practice was halted immediately.

Are atmospheric monitoring results acceptable? Yes.



Site Visitors	Representing
John Rolfe	de maximis
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Taylor	CH2M Hill
Gary Foster	CH2M Hill
Joe (QA)	CH2M Hill
Michael Hoppe	USEPA
Amy Picunas	CDM Smith

Site Representative: Amy Picunas

Date: 18-November-2013

Representative's signature:



November 18, 2013 1445: GLDD placing Sand/Aquagate cap, a slight turbidity plume is observed. The plume migration is limited to approximately 5-10 ft away from the location of placement.



November 18, 2013 1445: GLDD placing Sand/Aquagate cap, lift thickness is approximately 3 inches.



November 18, 2013 1445: GLDD placing Sand/Aquagate cap on one of the rocky areas.



November 18, 2013 1500: Sand/Aquagate sample location.



November 18, 2013 1500: Sand/Aquagate sample location.



November 18, 2013 1500: CH2M Hill collecting Lexan tubes of in-place Sand/Aquagate cap.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 19-Nov-2013	Report #: lpr_rm_10.9_Nov-19
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Mostly Cloudy	Partly Cloudy
Temperature	44 F	45 F
Wind Direction	20 mph NW	16 mph NNW

Description of work performed by contr. this report period:

- 0840-1230, 1430-1630: GLDD performed capping activities as described below.
 - Sand/AquaGate was applied in radial passes. GLDD performed three lifts over each location to achieve the desired material thickness.
 - The sand and AquaGate appeared sufficiently mixed, both coming off of the Telebelt and in non-submerged capping areas at low tide.
 - Some turbidity plumes were observed, however they dissipated not far from the placement location. No turbidity action levels were met at the monitoring buoys.
 - Scow/barge movements last night have provided enough sand for 2 full days of capping (enough sand to last through COB Wednesday) and enough AquaGate for 3-4 full days of capping (enough AquaGate through COB Thursday or Friday). More scow movements are scheduled for tonight (sand) and tomorrow night (AquaGate).
- 1230-1430: No capping performed during this time.
 - GLDD spent this time repositioning barges and scows, and switching out the barges loaded with AquaGate super sacs.
- 1430: Damaged conduit observed at low tide on shoreline near "No Dredge Zone".
 - The conduit was cut off but is sticking up in the air about 1.5-2 feet (see photo from today).
 - GLDD has not yet backfilled in the vicinity but will likely be working there by Thursday this week.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- None



Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is ongoing at two mobile stations set up in the park near the capping operation. The stations are situated approximately 200 feet apart. One of the stations is also monitoring H₂S concentrations.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. The monitors were active and reported to the monitoring website throughout the day.
- CH2M Hill collected multiple 4-inch diameter lexan tubes of the placed sand/AquaGate cap. The purpose of the samples is to perform visual confirmation that the placed cap meets the proper sand:AquaGate ratio (approximately 70% : 30%), and collect TOC samples. At least three samples were collected today.
- Transect Surface Water Sampling: The first round of transect surface water samples will be collected on Wednesday, November 20th.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None.

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Taylor	CH2M Hill
Gary Foster	CH2M Hill
Joe (QA)	CH2M Hill
Michael Hoppe	USEPA
Amy Picunas	CDM Smith

Site Representative: Amy Picunas

Date: 19-November-2013

Representative's signature:



November 19, 2013 0930: Barge loaded with Aquagate super sacs. This is enough Aquagate for approximately 4 days of capping.



November 19, 2013 1400: Sediment core collected by CH2M Hill yesterday. The core was collected to determine the makeup of the cap, by visual analysis and TOC analysis.



November 19, 2013 1400: Conduit that was damaged during dredging activities.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 20-Nov-2013	Report #: lpr_rm_10.9_Nov-20
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Mostly Cloudy	Scattered Clouds
Temperature	33 F	43 F
Wind Direction	12 mph NNE	6 mph N

Description of work performed by contr. this report period:

- 0815-1600: GLDD performed capping activities as described below.
 - Sand/AquaGate was applied in radial passes. GLDD performed three lifts over each location to achieve the desired material thickness.
 - The sand and AquaGate appeared sufficiently mixed, both coming off of the Telebelt and in non-submerged capping areas at low tide.
 - Some turbidity plumes were observed, however they dissipated not far from the placement location. No turbidity action levels were met at the monitoring buoys.
 - Scow/barge movement today have provided enough sand for an additional 2 full days of capping (enough sand to last through middle of the day Friday). Currently there is enough AquaGate for another 2-3 full days of capping (enough AquaGate through COB Thursday or Friday). More scow movements are scheduled for tonight (additional AquaGate).

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

■

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is ongoing at two mobile stations set up in the park near the capping operation. The stations are situated approximately 200 feet apart. One of the stations is also monitoring H₂S concentrations.



- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. The monitors were active and reported to the monitoring website throughout the day.
- CH2M Hill collected one 4-inch diameter lexan tube of the placed sand/Aquagate cap. The purpose of the sampling is to perform visual confirmation that the placed cap meets the proper sand:Aquagate ratio (approximately 70% : 30%), and collect TOC samples.
- Sediment Sampling at Utility Crossing: a three-man crew from USEPA were onsite today collecting vibracore samples along the utility crossing (“No Dredge Zone”) at RM 10.9.
- Transect Surface Water Sampling: Transect samples were collected from Buoys 2 and 3 today. Sample were collected at mid-depth in three (3) locations of a transect at each of the buoys. The locations were 50 ft off the east and west shorelines (based on Mean Low Water Elevation) and in the channel. In prior samplings the Northings and Eastings of each of the transect sampling locations were taken. OSI positioned the sampling boat to these Northings and Eastings to ensure samples were collected from same locations. The samples were collected between 0930 – 1130, during active capping. Sampling protocol follows:
 - CH2M Hill cuts dedicated tubing for each sampling location. Platinum-cured silicone tubing used in peristaltic pump.
 - OSI lowers YSI and dedicated tubing to mid-depth and begins two (2) minute purge. The YSI collects field parameters readings (pH, temperature, turbidity, DO, salinity) every half second (i.e., two (2) readings/second)
 - After 2 minute purge, an aliquot of approximately seven (7) L is collected into a plastic carboy (1 carboy for each Buoy). Field readings are recorded in the log book
 - After completing the sampling, the carboys are brought back to the Field Office. A new length of platinum-cured silicone tubing is cut for each carboy and sample bottles are filled using a peristaltic pump. Total Hg and Dissolved Hg sample bottles are filled using the “Clean Hand” method.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None.

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
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John Rolfe	de maximis
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Taylor	CH2M Hill
Gary Foster	CH2M Hill
Joe (QA)	CH2M Hill
Michael Hoppe	USEPA
Amy Picunas	CDM Smith

Site Representative: Amy Picunas

Date: 20-November-2013

Representative's signature:



November 20, 2013 0930: EPA crew collecting vibrocore samples at mouth of Third River.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 21-Nov-2013	Report #: lpr_rm_10.9_Nov-21
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Scattered Clouds	Mostly Cloudy
Temperature	33 F	50 F
Wind Direction	9 mph NNE	9 mph SE

Description of work performed by contr. this report period:

- 0830-1400: GLDD performed capping activities as described below.
 - Sand/AquaGate was applied in radial passes. GLDD performed three lifts over each location to achieve the desired material thickness.
 - The sand and AquaGate appeared sufficiently mixed, both coming off of the Telebelt and in non-submerged capping areas at low tide.
 - Some turbidity plumes were observed, however they dissipated not far from the placement location. No turbidity action levels were met at the monitoring buoys.
 - GLDD placed capping materials at a rate faster than predicted and consequently expended all AquaGate onsite at 2:00 pm today.
- Scow/barge movement is scheduled for tonight to provide enough sand for an additional 2 full days of capping (enough sand to last through COB Saturday), and enough AquaGate for another 2-3 full days of capping (enough AquaGate through COB Saturday or Monday).
- If the current rate of cap application continues, it is expected that GLDD will have placed the Sand/AquaGate cap up to the southern edge of the "No Dredge Zone" by COB Friday.
- Last evening at low tide, GLDD attempted to remove the abandoned cable using a grinder but was unsuccessful. CH2M Hill and de maximis are going to attempt to remove the cable tonight at low tide.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:



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Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is ongoing at two mobile stations set up in the park near the capping operation. The stations are situated approximately 200 feet apart. One of the stations is also monitoring H₂S concentrations.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. The monitors were active and reported to the monitoring website throughout the day.
- CH2M Hill collected one 4-inch diameter lexan tube of the placed sand/Aquagate cap. The purpose of the sampling is to perform visual confirmation that the placed cap meets the proper sand:Aquagate ratio (approximately 70% : 30%), and collect TOC samples. The sample preparation process follows:
 - CH2M Hill hand-drives the 4-inch lexan tube into an area where the sand/Aquagate cap was recently placed.
 - Once the tube has been driven to a sufficient depth, the tube is pulled up and before crossing the water line, a cap is placed on the bottom (to prevent loss of sediment sample).
 - While on the sample boat, the sampling crew cuts the tube just above the top of the sediment sample (to simultaneously drain off excess water and eases handling of the sampling tube). The cut tube is capped and transported back to the CPG Field Office.
 - At the CPG Field Office, CH2M Hill visually inspects the sample to determine the edge of the sand/AquaGate cap versus native sediment. CH2M Hill then cuts the tube at the edge of the sand/AquaGate cap versus native sediment (approximately 10 inches).
 - The sample tube is then capped and sealed with duct tape. The sample is housed in the refrigeration unit at the CPG Field Office until it is shipped to the laboratory for analysis.
- Sediment Sampling: a three-man crew from USEPA were onsite today collecting vibracore samples south of the dredge area at RM 10.9.
- Transect Surface Water Sampling: No transect samples were collected today.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None.



Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Stan Kaczmarek	de maximis
Roy Weller	CH2M Hill
Mike Holsinger	CH2M Hill
Taylor	CH2M Hill
Gary Foster	CH2M Hill
Joe (QA)	CH2M Hill
Amy Picunas	CDM Smith

Site Representative: Amy Picunas

Representative's signature:

Date: 21-November-2013



November 21, 2013 1430: Sediment core collected by CH2M Hill on November 18, 2013. The core was collected to determine the makeup of the cap, by visual analysis and TOC analysis. This is the 10-inch sample of cap, to be sent to lab for analysis. It is difficult to differentiate between the sand and AquaGate because the core is now frozen.



November 21, 2013 1430: Sediment core collected by CH2M Hill on November 19, 2013. The core was collected to determine the makeup of the cap, by visual analysis and TOC analysis. This is the 10-inch sample of cap, to be sent to lab for analysis. It is difficult to differentiate between the sand and AquaGate because the core is now frozen.



November 21, 2013 1430: Sediment core collected by CH2M Hill on November 20, 2013. The core was collected to determine the makeup of the cap, by visual analysis and TOC analysis. This is the 10-inch sample of cap, to be sent to lab for analysis. It is difficult to differentiate between the sand and AquaGate because the core is now frozen.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 22-Nov-2013	Report #: lpr_rm_10.9_Nov-22
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Light Rain	Mostly Cloudy
Temperature	51 F	57 F
Wind Direction	10 mph SW	8 mph WSW

Description of work performed by contr. this report period:

- 0920-1620: GLDD performed capping activities as described below.
 - Sand/AquaGate was applied in radial passes. GLDD performed three lifts over each location to achieve the desired material thickness.
 - The sand and AquaGate appeared sufficiently mixed, both coming off of the Telebelt and in non-submerged capping areas at low tide.
 - Some turbidity plumes were observed, however they dissipated not far from the placement location. No turbidity action levels were met at the monitoring buoys.
- No scow/barge movement is scheduled for tonight. On-site there is enough sand to last through COB Saturday, and enough AquaGate to last through COB Saturday or Monday.
- GLDD completed placement of the Sand/AquaGate cap up to the southern edge of the "No Dredge Zone" by midday Friday. GLDD spent the afternoon placing the Sand/AquaGate cap along the northern edge of the "No Dredge Zone".
- CH2M Hill and de maximis are successfully removed the abandoned utility cable last night at low tide.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

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Sampling and Analyses:



- Riverside County Park: Real-time monitoring of particulates is ongoing at two mobile stations set up in the park near the capping operation. The stations are situated approximately 200 feet apart. One of the stations is also monitoring H₂S concentrations.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. The monitors were active and reported to the monitoring website throughout the day.
- CH2M Hill collected one 4-inch diameter lexan tube of the placed sand/Aquagate cap. The purpose of the sampling is to perform visual confirmation that the placed cap meets the proper sand:Aquagate ratio (approximately 70% : 30%), and collect TOC samples. The sample preparation process follows:
 - CH2M Hill hand-drives the 4-inch lexan tube into an area where the sand/Aquagate cap was recently placed.
 - Once the tube has been driven to a sufficient depth, the tube is pulled up and before crossing the water line, a cap is placed on the bottom (to prevent loss of sediment sample).
 - While on the sample boat, the sampling crew cuts the tube just above the top of the sediment sample (to simultaneously drain off excess water and eases handling of the sampling tube). The cut tube is capped and transported back to the CPG Field Office.
 - At the CPG Field Office, CH2M Hill visually inspects the sample to determine the edge of the sand/AquaGate cap versus native sediment. CH2M Hill then cuts the tube at the edge of the sand/AquaGate cap versus native sediment (approximately 10 inches).
 - The sample tube is then capped and sealed with duct tape. The sample is housed in the refrigeration unit at the CPG Field Office until it is shipped to the laboratory for analysis.
- Transect Surface Water Sampling: No transect samples were collected today.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None.

Are atmospheric monitoring results acceptable? Yes.



Site Visitors	Representing
John Rolfe	de maximis
Roy Weller	CH2M Hill
Mike Holsinger	CH2M Hill
Taylor	CH2M Hill
Gary Foster	CH2M Hill
Joe (QA)	CH2M Hill
Mike Hoppe	USEPA
Amy Picunas	CDM Smith

Site Representative: Amy Picunas
Representative's signature:

Date: 22-November-2013



November 22, 2013 1530: GLDD placing Sand/AquaGate cap along the northern edge of the “No Dredge Zone”. The dredge cut is visible in the foreground.



November 22, 2013 1550: CH2M Hill collecting a sediment core.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 23-Nov-2013	Report #: lpr_rm_10.9_Nov-23
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Partly Cloudy	Mostly Cloudy
Temperature	39 F	45 F
Wind Direction	5 mph Variable	18 mph W

Description of work performed by contr. this report period:

- 1000-1600: GLDD performed capping activities as described below.
 - Sand/AquaGate was applied in radial passes. GLDD performed three lifts over each location to achieve the desired material thickness.
 - The sand and AquaGate appeared sufficiently mixed, both coming off of the Telebelt and in non-submerged capping areas at low tide.
 - Some turbidity plumes were observed, however they dissipated not far from the placement location. No turbidity action levels were met at the monitoring buoys.
- The next barge movements are schedule for mid-afternoon Monday (approximately 2:30 pm).
- On-site there is enough sand to last through COB Monday, and only enough AquaGate to last a few hours on Monday. There will likely be lost time on Monday due to lack of AquaGate.
- GLDD has moved north of the "No Dredge Zone" and spent the day placing the Sand/AquaGate cap along the northern edge of the "No Dredge Zone".

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- Stan Kaczmarek (dmi) will provide production numbers for Sand/AquaGate placement to EPA and CDM Smith on Monday November 25th.
- On Monday November 25th, CH2M Hill will be shipping out samples collected from the Sand/AquaGate cap for visual and Total Carbon analysis.



Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is ongoing at two mobile stations set up in the park near the capping operation. The stations are situated approximately 200 feet apart. One of the stations is also monitoring H₂S concentrations.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. The monitors were active and reported to the monitoring website throughout the day.
- CH2M Hill collected one 4-inch diameter lexan tube of the placed sand/AquaGate cap. The purpose of the sampling is to perform visual confirmation that the placed cap meets the proper sand:AquaGate ratio (approximately 70% : 30%), and collect TOC samples. The sample preparation process follows:
 - CH2M Hill hand-drives the 4-inch lexan tube into an area where the sand/AquaGate cap was recently placed.
 - Once the tube has been driven to a sufficient depth, the tube is pulled up and before crossing the water line, a cap is placed on the bottom (to prevent loss of sediment sample).
 - While on the sample boat, the sampling crew cuts the tube just above the top of the sediment sample (to simultaneously drain off excess water and eases handling of the sampling tube). The cut tube is capped and transported back to the CPG Field Office.
 - At the CPG Field Office, CH2M Hill visually inspects the sample to determine the edge of the sand/AquaGate cap versus native sediment. CH2M Hill then cuts the tube at the edge of the sand/AquaGate cap versus native sediment (approximately 10 inches).
 - The sample tube is then capped and sealed with duct tape. The sample is housed in the refrigeration unit at the CPG Field Office until it is shipped to the laboratory for analysis.
- Transect Surface Water Sampling: No transect samples were collected today.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None.

Are atmospheric monitoring results acceptable? Yes.



Site Visitors	Representing
John Rolfe	de maximis
Roy Weller	CH2M Hill
Mike Holsinger	CH2M Hill
Taylor	CH2M Hill
Gary Foster	CH2M Hill
Joe (QA)	CH2M Hill
Amy Picunas	CDM Smith

Site Representative: Amy Picunas
Representative's signature:

Date: 23-November-2013



November 23, 2013 1500: GLDD placing Sand/AquaGate cap along the north of the “No Dredge Zone”.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 25-Nov-2013	Report #: lpr_rm_10.9_Nov-25
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	26 F	36 F
Wind Direction	4.6 mph WNW	9.6 mph WNW

Description of work performed by contr. this report period:

- 0950-1030: Capping operations resumed briefly until the supply of AquaGate ran out.
 - Due to the low temperature, GLDD needed 2 hours in the morning for the equipment to warm up before they could begin placing material.
 - Sand/AquaGate was applied in radial passes. Only a small area was covered.
 - The sand and AquaGate appeared sufficiently mixed, both coming off of the Telebelt and in non-submerged capping areas at low tide. Per S. Kaczmarek, the percentage of AquaGate in the mixture has been increased to 34-35% from 30%.
- 1600: Two barges arrived at RM 10.9 carrying sand and AquaGate, respectively.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 0930: Received word from S. Kaczmarek that capping was not yet underway due to low temperatures at RM 10.9. Operations would likely begin between 0930 and 1000.
- 1100: After observing approximately 40 minutes of capping followed by a lengthy delay, received word from S. Kaczmarek that capping was finished for the day. The AquaGate supply was used up.
- 1230: Further discussion with S. Kaczmarek at field facility in Rutherford:
 - Additional AquaGate will be received at RM 10.9 this afternoon and capping is expected to



proceed without delay tomorrow.

- Hudson County continues to ask CPG when they will have a chance to shut down Bridge St. Bridge to repair the second shaft. S. Kaczmarek has asked them to send, as a courtesy, the Engineer's Report regarding the damaged shaft. CPG hopes that Hudson County will cooperate and allow the capping operations to proceed to completion before they insist on making the repair.
- S. Kaczmarek estimates that the sand/AquaGate placement will be complete by next Tuesday, December 3rd.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is ongoing at two mobile stations set up in the park near the capping operation. The stations are situated approximately 200 feet apart. One of the stations is also monitoring H₂S concentrations.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. The monitors were active and reported to the monitoring website throughout the day.
- Transect Surface Water Sampling: Surface water samples will be collected from Transects 2 and 3 tomorrow, Tuesday, November 26, 2013 in the morning. CDM Smith will collect a split sample from Transect 2.
- CH2M Hill shipped out the 4-inch lexan tubes containing sand/AquaGate cap for analysis. CDM Smith inspected the samples prior to shipment. They were comprised of visually-homogeneous dark material.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations.

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek Mike Holsinger	de maximis CH2M Hill



Taylor	CH2M Hill
Roy	CH2M Hill
Joe (QA)	CH2M Hill
Mike Hoppe	EPA
Ben Hammond	CDM Smith

Site Representative: Ben Hammond

Date: 25-November-2013

Representative's signature:



Core Sample

CH2M Hill shipped out for TOC analysis the core samples collected last week. The samples contain only the sand/AquaGate layer (approximately 10 inches) and none of the underlying material. The samples were uniformly colored (nearly black) and free of observable heterogeneities.



AquaGate shipment

GLDD were only able to place capping material for approximately 40 minutes this morning due to a shortage of AquaGate. The above-pictured barge arrived at RM 10.9 at 1600 and was followed by a second barge filled with sand.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 26-Nov-2013	Report #: lpr_rm_10.9_Nov-26
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Overcast	Light Rain
Temperature	37 F	41 F
Wind Direction	Calm	5.0 mph E

Description of work performed by contr. this report period:

- 0800-1430: Capping operations proceeded without delay throughout most of the day, as described below:
 - Sand/AquaGate was applied in radial passes. GLDD performed three lifts over each location to achieve the desired material thickness.
 - The sand and AquaGate appeared sufficiently mixed, both coming off of the Telebelt and in non-submerged capping areas at low tide.
 - Some turbidity plumes were observed, however they dissipated not far from the placement location. No turbidity action levels were met at the monitoring buoys.
 - GLDD completed placement of the Sand/AquaGate cap up to midway between the no-dredge zone and the fire department boat launch.
 - Work stopped for the day at 1430 as the rain intensified.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 0930: Discussed the increase in AquaGate application from 30% to 34-35% that Stan Kaczmarek mentioned yesterday:
 - S. Kaczmarek said that 34-35% was probably an overstatement and that GLDD are simply applying AquaGate on the conservative (i.e., high) side of 30%. He said that there is no particular reason other than that the AquaGate material is available to be used, and that they are



now reaching the area with the highest contaminant concentrations.

- 1400: Per S. Kaczmarek, there will be no work at RM 10.9 on Wednesday, November 27th. The forecast calls for severe weather that would be unsuitable for capping operations. While GLDD will not officially call off the work until tomorrow morning due to union issues, it is assumed that they will not work. S. Kaczmarek will inform all relevant parties in the morning if this changes.
- 1600: CDM Smith pointed out to S. Kaczmarek that, while there is only one-half day of AquaGate on the barge, the next barge movement is not scheduled until Saturday evening. If this schedule holds there will be no capping during half of Friday and all of Saturday.
 - S. Kaczmarek will inquire with T. King (GLDD) whether it would be possible to arrange an earlier barge movement, either on Friday or Saturday morning.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is ongoing at two mobile stations set up in the park near the capping operation. The stations are situated approximately 200 feet apart. One of the stations is also monitoring H₂S concentrations.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. The monitors were active and reported to the monitoring website throughout the day.
 - It was noted that the buoy at Transect 2 is labeled “3” and the buoy at Transect 3 is labeled “2.” They appear to have been mixed up during redeployment between dredging and capping, and therefore the Buoy 2 turbidity values reporting to the website may actually be collected from Transect 3 and vice-versa. This has no impact on transect sampling, as the regular naming scheme (the transect numbers ascend from south to north) continues to be used. T. Salsburg (CH2M Hill) will look into the discrepancy.
- Transect Surface Water Sampling: Transect samples were collected from Buoys 2 and 3 today. Sample were collected at mid-depth in three (3) locations of each transect. The locations were 50 ft off the east and west shorelines (based on Mean Low Water Elevation) and in the channel. In prior samplings the Northings and Eastings of each of the transect sampling locations were taken. OSI positioned the sampling boat to these Northings and Eastings to ensure samples were collected from same locations. The samples were collected between 1000 – 1130, during active capping. Sampling protocol follows:
 - CH2M Hill cuts dedicated tubing for each sampling location. Platinum-cured silicone tubing used in peristaltic pump.
 - OSI lowers YSI and dedicated tubing to mid-depth and begins two (2) minute purge. The YSI collects field parameters readings (pH, temperature, turbidity, DO, salinity) every half second (i.e., two (2) readings/second)
 - After 2 minute purge, an aliquot of approximately seven (7) L is collected into a plastic carboy (1 carboy for each Buoy). Field readings are recorded in the log book
 - After completing the sampling, the carboys are brought back to the Field Office. A new length



of platinum-cured silicone tubing is cut for each carboy and sample bottles are filled using a peristaltic pump. Total Hg and Dissolved Hg sample bottles are filled using the "Clean Hand" method.

- CDM Smith collected split sample CSW-2-131126-L-C at 1300, to be analyzed for PCBs, Dioxins, PCE/TCE, SSC, and Mercury (total and dissolved)

- CH2M Hill were observed collecting a 4-inch lexan tube containing sand/AquaGate cap. They will be shipped out early next week for analysis. CDM Smith inspected the sample, which was comprised of visually-homogeneous dark material.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations.

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Taylor Salsburg	CH2M Hill
Roy	CH2M Hill
Joe (QA)	CH2M Hill
Ben Hammond	CDM Smith

Site Representative: Ben Hammond

Date: 26-November-2013

Representative's signature:



Sand/AquaGate Placement

GLDD placed Sand/AquaGate mixture without delay from 0800 until 1430, when the weather worsened and prevented further work. This photograph faces south.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 30-Nov-2013	Report #: lpr_rm_10.9_Nov-30
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	26 F	37 F
Wind Direction	4.6 mph N	Calm

Description of work performed by contr. this report period:

- 1030-1545: Capping operations proceeded as described below and paused only for routine breaks and to move the barges:
 - Operations did not begin right away in the morning because cold overnight temperatures caused some of the sand in the barge to freeze.
 - Sand/AquaGate was applied in radial passes. GLDD performed three lifts over each location to achieve the desired material thickness.
 - The sand and AquaGate appeared sufficiently mixed, both coming off of the Telebelt and in non-submerged capping areas at low tide.
 - Some turbidity plumes were observed, however they dissipated not far from the placement location. No turbidity action levels were met at the monitoring buoys.
 - At the end of the day it was unclear how much AquaGate was available. On Monday morning the capping schedule will be verified with de maximis.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1200: Discussed capping schedule with John Rolfe (de maximis):
 - John mentioned that GLDD would likely use up their AquaGate supply soon, meaning there could be a pause until more is delivered to RM 10.9

**Sampling and Analyses:**

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. The monitors were active and reported to the monitoring website throughout the day.
- Transect Surface Water Sampling: Transect sampling is complete for the week.
- CH2M Hill were observed collecting a 4-inch lexan tube containing sand/AquaGate cap. They will be shipped out early next week for analysis.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy	CH2M Hill
Joe (QA)	CH2M Hill
Ben Hammond	CDM Smith

Site Representative: Ben Hammond

Date: 30-November-2013

Representative's signature:



Sand/AquaGate Placement

GLDD placed Sand/AquaGate mixture without delay from 1030 until 1545, and by the end of the day had advanced to beyond the fire department boat launch. This photograph faces north.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 2-Dec-2013	Report #: lpr_rm_10.9_Dec-02
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Overcast	Overcast
Temperature	41 F	49 F
Wind Direction	3.5 mph N	Calm

Description of work performed by contr. this report period:

- 0815-1430: Capping operations proceeded without delay, as described below:
 - GLDD began the day with approximately one day's supply of AquaGate and sand.
 - Sand/AquaGate was applied in radial passes. GLDD performed three lifts over each location to achieve the desired material thickness.
 - The sand and AquaGate appeared sufficiently mixed coming off of the Telebelt.
 - Some turbidity plumes were observed, however they dissipated not far from the placement location. No turbidity action levels were met at the monitoring buoys.
 - Capping ended for the day at 1430 because GLDD exhausted their supply of sand. They were also nearly out of AquaGate.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 0745: Brief phone conversation with Stan Kaczmarek (de maximis) to review the schedule for this week:
 - He said that there was enough AquaGate for a partial day of work today but that there would not be an upriver movement of AquaGate until Wednesday evening, therefore there would be no capping on Tuesday or Wednesday.
- 1030: Asked John Rolfe (de maximis) about the delay of AquaGate delivery until Wednesday:
 - Per John, GLDD did not order enough AquaGate from the manufacturer. Because they waited until now, the material will not be available until the scheduled barge movement on Wednesday



evening.

- 1330: Mike Hoppe (EPA) asked John Rolfe about the suitability of the dredge bucket (the yellow bucket currently used to swing AquaGate) for the armor stone placement, as proposed. John confirmed with Stan that it will be sufficient.
- 1430: Informed by Stan Kaczmarek that sand will be delivered to RM 10.9 tonight. He also asked GLDD to pile any available AquaGate into the sand barge in order to have as much production on Tuesday as possible. There will be no operations on Wednesday and capping will resume on Thursday. Stan is hopeful that the sand/AquaGate placement will finish by Friday.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. The monitors were active and reported to the monitoring website throughout the day.
- Transect Surface Water Sampling: Transect sampling is will take place this Thursday, December 5th.
- CH2M Hill were observed collecting a 4-inch lexan tube containing sand/AquaGate cap. It was shipped out today for analysis, along with a tube collected on November 30th.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.



Site Visitors	Representing
John Rolfe	de maximis
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy	CH2M Hill
Joe (QA)	CH2M Hill
Taylor Salsburg	CH2M Hill
Mike Hoppe	EPA
Ben Hammond	CDM Smith

Site Representative: Ben Hammond

Date: 2-December-2013

Representative's signature:



Progress in Northern Portion of Capping Area

GLDD have advanced to the final portion of the capping area, as pictured. They will likely reach the northern boundary of the capping area by the end of this week.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 5-Dec-2013	Report #: lpr_rm_10.9_Dec-05
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Light Drizzle	Overcast
Temperature	50 F	56 F
Wind Direction	Calm	5 mph E

Description of work performed by contr. this report period:

- 1000-1430: Capping operations proceeded without delay, as described below:
 - GLDD began the day with the final supply of AquaGate and sand.
 - Sand/AquaGate was applied in radial passes. GLDD performed three lifts over each location to achieve the desired material thickness.
 - The sand and AquaGate appeared sufficiently mixed coming off of the Telebelt.
 - Some turbidity plumes were observed, however they dissipated not far from the placement location. No turbidity action levels were met at the monitoring buoys.
 - Application of active layer capping was completed at 1530.
- 1600-1700: Application of remaining AquaGate was performed, as described below:
 - Upon completion of installing the active cap layer, GLDD had approximately 35 bags of AquaGate remaining.
 - GLDD repositioned the barge to approximately STA 12+00 (across from the Riverside Park pavilion)
 - AquaGate was applied in radial passes, in one inch thick lifts.
 - No sand was mixed in.



Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1330: Representatives from NJDEP were onsite at Riverside Park for a site visit:
 - Jay Nickerson, Gary Nickerson, and Joel Pecchioli of NJDEP were onsite to observe application of the active cap layer.
 - The representatives asked general questions, such as: thickness of lifts applied, the homogeneity of installed active cap (i.e., did all the AquaGate clump together upon installation), the effect of tidal influences on the cap (i.e., any evidence of loss of cap due to tidal influence), and the schedule for installing the geotextile fabric and armor stone.
 - Overall the NJDEP representatives found the answers acceptable and requested the opportunity to observe the installation of the geotextile fabric and armor stone.
- 1430: Informed by Stan Kaczmarek that GLDD will need a few days to set up the barges for installation of the geotextile fabric and armor stone. The plan is to

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. The monitors were active and reported to the monitoring website throughout the day.
- Transect Surface Water Sampling: Transect samples were collected from Buoys 2 and 3 today. Sample were collected at mid-depth in three (3) locations of a transect at each of the buoys. The locations were 50 ft off the east and west shorelines (based on Mean Low Water Elevation) and in the channel. In prior samplings the Northings and Eastings of each of the transect sampling locations were taken. OSI positioned the sampling boat to these Northings and Eastings to ensure samples were collected from same locations. The samples were collected between 0930 – 1130, during active capping. Sampling protocol follows:
 - CH2M Hill cuts dedicated tubing for each sampling location. Platinum-cured silicone tubing used in peristaltic pump.
 - OSI lowers YSI and dedicated tubing to mid-depth and begins two (2) minute purge. The YSI collects field parameters readings (pH, temperature, turbidity, DO, salinity) every half second (i.e., two (2) readings/second)
 - After 2 minute purge, an aliquot of approximately seven (7) L is collected into a plastic carboy (1 carboy for each Buoy). Field readings are recorded in the log book
 - After completing the sampling, the carboys are brought back to the Field Office. A new length of platinum-cured silicone tubing is cut for each carboy and sample bottles are filled using a peristaltic pump. Total Hg and Dissolved Hg sample bottles are filled using the “Clean Hand” method.
 - CDM Smith did NOT collect a split sample today. This is the final transect sampling that will be performed by CH2M Hill.
- CH2M Hill were observed collecting two 4-inch lexan tubes containing sand/AquaGate cap. The sampled will be sent to the lab for analysis on December 6, 2013 (see photo log for December 6,



2013 to see the sample tubes).

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Taylor Salsburg	CH2M Hill
Jay Nickerson	NJDEP
Gary Nickerson	NJDEP
Joel Pecchioli	NJDEP
Amy Picunas	CDM Smith

Site Representative: Amy Picunas

Date: 5-December-2013

Representative's signature:



December 5, 2013 1330: GLDD placing Sand/AquaGate cap along the northern edge of the RM 10.9 dredge area.



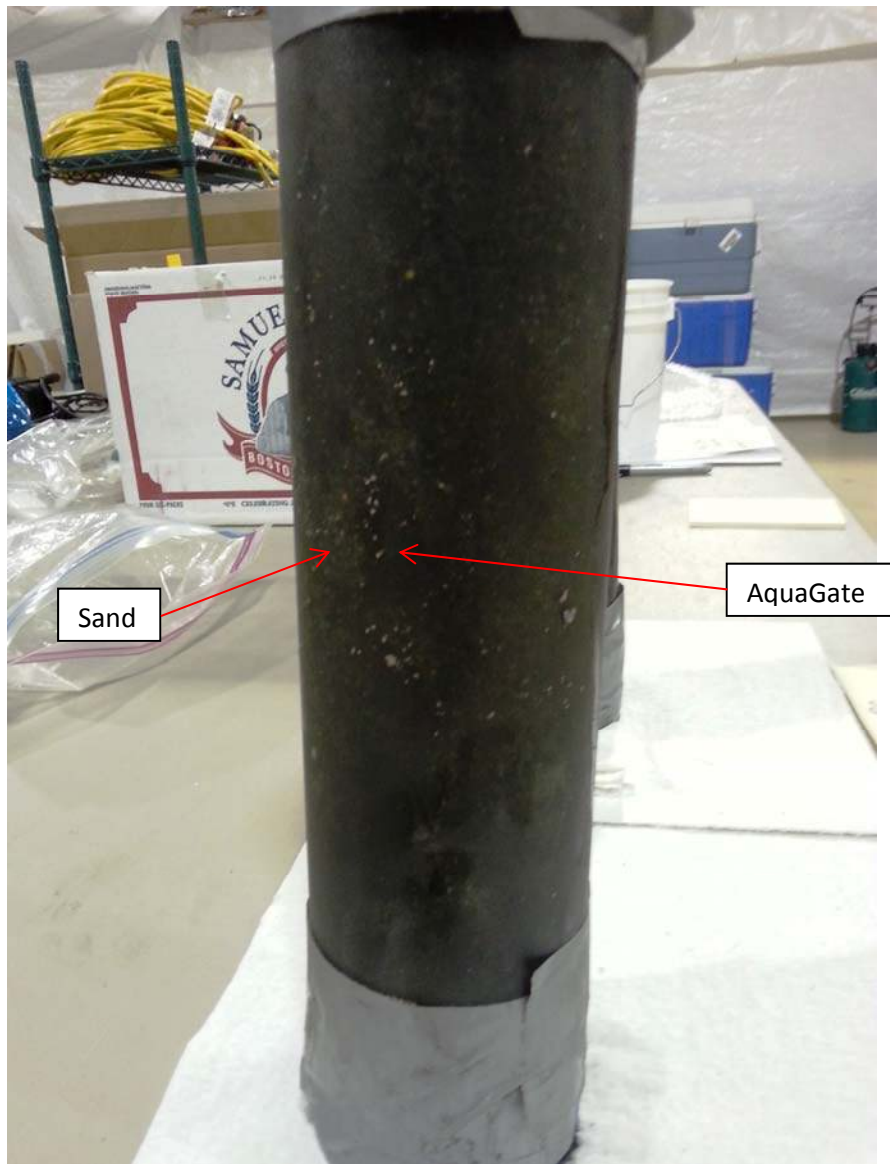
December 5, 2013 1630: GLDD placing straight AquaGate along the shoreline in the southern dredge area (approximately STA 12+00, across from Riverside Park pavilion).



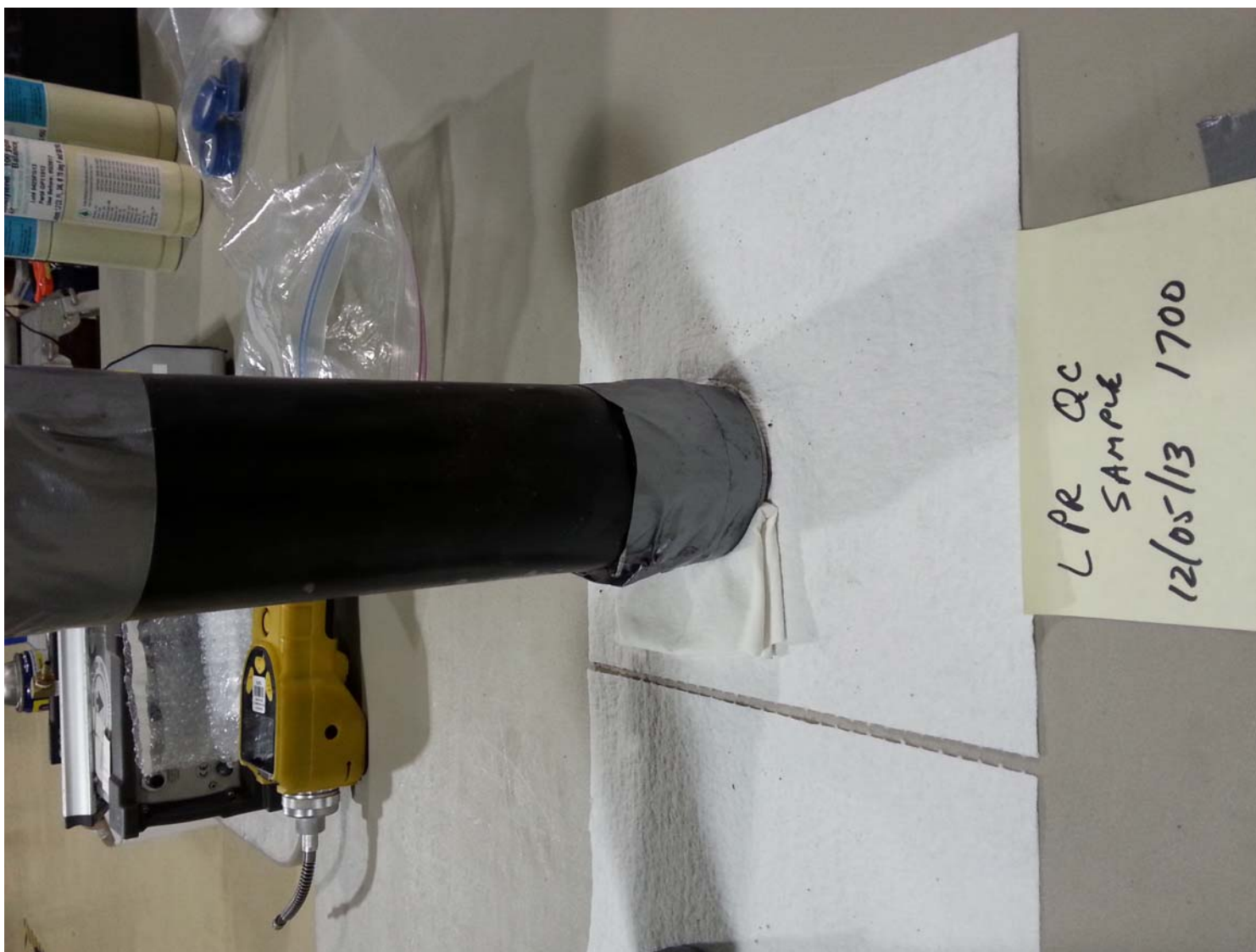
December 5, 2013 1630: Shoreline in the southern dredge area where straight AquaGate was placed (approximately STA 12+00, across from Riverside Park pavilion).



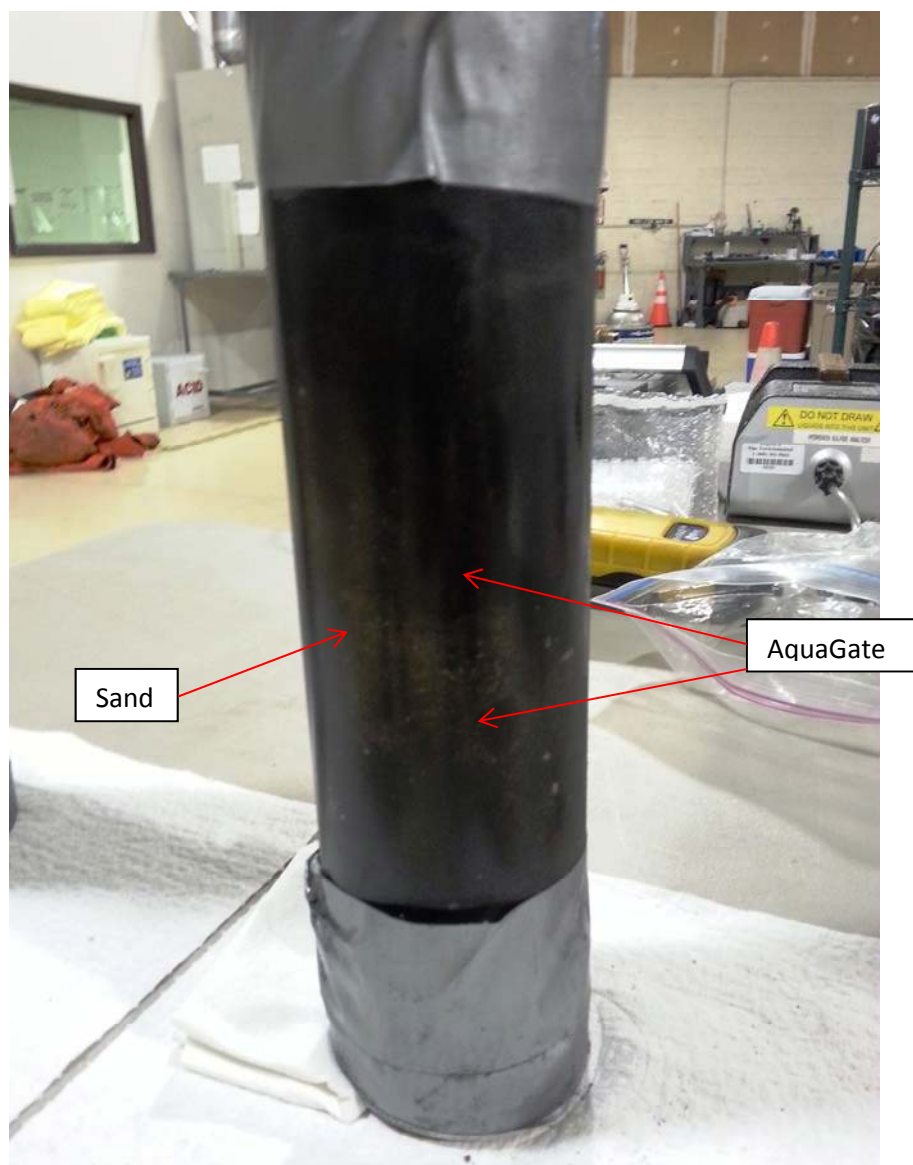
December 6, 2013 0930: Confirmation cap sample collected on December 5, 2013 at 1630.



December 6, 2013 0930: Close up of confirmation cap sample collected on December 5, 2013 at 1630. Attempting to show gradation.



December 6, 2013 0930: Confirmation cap sample collected on December 5, 2013 at 1700.



December 6, 2013 0930: Close up of confirmation cap sample collected on December 5, 2013 at 1700. Attempting to show gradation.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 11-Dec-2013	Report #: lpr_rm_10.9_Dec-11
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Mostly Cloudy
Temperature	25 °F	31 °F
Wind Direction	6 mph SW	12 mph SW

Description of work performed by contr. this report period:

- 1500-1600: Capping operations resumed, as described below:
 - Two barges were deployed to the RM 10.9 site. One barge contained Type A armor stone, and the other barge contained rolls of geotextile fabric. The barges are set up in the southern dredge area, immediately south of the "No Dredge Zone".
 - A frame was installed on the bucket of the Caterpillar excavator, to be used for rolling out the geotextile fabric.
 - The Fuchs excavator is being used to install armor stone. Per observations from shoreline, the diameter of the Type A stone is predominantly 12-inches or greater. However the stone is not well graded and there are smaller stones and some small course material was observed (< 1-inch).
 - Some minor turbidity plumes were observed, however they dissipated not far from the placement location.
- GLDD's first attempt at installing the fabric and stone proceeded as follows:
 - The barges were deployed very close to shore at high tide, and the Caterpillar excavator lowered the fabric roll and frame just above the water line. Three GLDD personnel stood on the shoreline, holding the fabric in place.
 - Extra fabric was purposely installed at the shoreline (above the design elevation). GLDD will cut the fabric down to design elevation during low tide tomorrow.
 - The barges were then moved farther offshore, towards the river channel. This caused the fabric



to unfurl from the roll, which worked well until the wind lifted the fabric like a sail. Consequently, more fabric unfurled from the roll than was intended. GLDD is considering a way to install a braking system on the fabric frame to prevent this situation from occurring again.

- Once the barges were about 30 ft offshore (thus approximately 35-40 ft of fabric unfurled), the Fuchs excavator began placing armor stone on the fabric to anchor. This action helped stop the lifting of the fabric, but the fabric was lumpy and not aligned straight (the fabric was installed in more of an "S" shape, not a straight line).
- Fabric installation continued in this manner out to the channel.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1630: A Picunas discussed with S Kaczmarek regarding updating the following figures:
 - Updated maps of active cap layer installation locations, including the area where AquaGate only was installed.
 - Updated maps of QA/QC active layer sample locations, along with corresponding depths.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Real-time monitoring of turbidity is suspended.
- Transect Surface Water Sampling: Transect sampling was completed last Thursday December 5, 2013.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.



Site Visitors	Representing
John Rolfe	de maximis
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Joe (QA)	CH2M Hill
Gary Foster	CH2M Hill
Amy Picunas	CDM Smith

Site Representative: Amy Picunas

Date: 11-December-2013

Representative's signature:



December 11, 2013 1500: Barge loaded with Type A armor stone (12-in + stone). The barge is moored in the southern dredge area, at the southern edge of the “No Dredge Zone”



December 11, 2013 1500: The entire fabric and armor stone barges.



Frame for rolling out geotextile fabric
(attached to Caterpillar excavator
bucket)

Bucket of Fuchs excavator
installing Type A armor stone to
anchor the geotextile fabric

December 11, 2013 1500: GLDD installing geotextile fabric and armor stone.



December 11, 2013 1600: First attempt at installing geotextile fabric. The fabric was installed in an "S" shape and not fully anchored. GLDD purposely installed the fabric higher on the shoreline than specified in the design. During low tide tomorrow, GLDD will trim back the fabric to the design elevation, and anchor it with the Type A armor stone.

Approximate edge of elevation design. GLDD will cut the fabric down to this line during low tide tomorrow

Stump or rock, located higher than the design elevation



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 12-Dec-2013	Report #: lpr_rm_10.9_Dec-12
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Scattered Clouds	Scattered Clouds
Temperature	23 °F	26 °F
Wind Direction	14 mph NW	8 mph SW

Description of work performed by contr. this report period:

- 0800-1600: Capping operations were attempted, as described below:
 - Two barges were deployed to the RM 10.9 site. One barge contained Type A armor stone, and the other barge contained rolls of geotextile fabric. The barges are set up in the southern dredge area, immediately south of the "No Dredge Zone".
 - A frame was installed on the bucket of the Caterpillar excavator, to be used for rolling out the geotextile fabric.
 - The Fuchs excavator is being used to install armor stone. Per observations from shoreline, the diameter of the Type A stone is predominantly 12-inches or greater. However the stone is not well graded and there are smaller stones and some small course material was observed (< 1-inch).
- 1130: The first installed panel was observed during low tide today. The panel was observed to be bunched up with sporadic rock placement.
 - GLDD will need to straighten out the liner and spread out the rocks more evenly.
 - The excess fabric installed at the shoreline was pulled down to the design elevation.
- 1130: GLDD attempted to install a second panel at low tide:
 - Two deckhands attempted to hand-pull the geotextile fabric from the roll on to the shoreline, using a rope tied to each corner of the fabric.
 - The fabric did not unroll and after a few attempts, GLDD abandoned that option.
- 1330: GLDD attempted to install a second panel during high tide:



- The panel installation was similar to yesterday, moving the barges from shoreline to the channel, allowing the roll to unfurl.
- The fabric did not unfurl in an orderly manner, and GLDD gave up on attempting installing the second panel.
- 1500: GLDD informed CH2M Hill and DMI that they would no longer attempt to install fabric today, and would instead re-work their installation plan and attempt it again tomorrow.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1600: A Picunas discussed with S Kaczmarek regarding updating the following figures:
 - Updated maps of active cap layer installation locations, including the area where AquaGate only was installed.
 - Updated maps of QA/QC active layer sample locations, along with corresponding depths.
 - A map showing the limits of the undercut areas, to provide a clear indication of where the Type B stone will be placed.
 - Stan agreed with updating the figures, but requested receipt of an email addressed to him outlining these updates.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. The monitors were active and reported to the monitoring website throughout the day.
- Transect Surface Water Sampling: Transect sampling was completed last Thursday December 5, 2013.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.



Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Gary Foster	CH2M Hill
Amy Picunas	CDM Smith

Site Representative: Amy Picunas

Date: 12-December-2013

Representative's signature:



December 12, 2013 1130: First panel of geotextile fabric installed yesterday. The fabric was installed in an "S" shape and not fully anchored. GLDD pulled the fabric down a little past design elevation (survey stake denotes edge of design elevation).

Survey stake denoting edge of design elevation.

Stump that had been covered by geotextile fabric yesterday.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 13-Dec-2013	Report #: lpr_rm_10.9_Dec-13
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Mostly Cloudy	Scattered Clouds
Temperature	24 °F	34 °F
Wind Direction	9 mph WSW	17 mph W

Description of work performed by contr. this report period:

- 0800-1400: No active capping took place today. GLDD spent the day repairing a winch and planning a new method for installing the geotextile fabric panels. All discussion were internal to GLDD, CH2M Hill and dmi were not included in the discussions.
- 1400: GLDD informed CH2M Hill that no work would occur today, however they intend to begin installation at 0600 tomorrow morning.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 0830: A Picunas discussed with J Rolfe examples of geotextile fabric installation on other projects including staking down the fabric at the shoreline, this could help prevent the wind from repositioning the fabric.
 - John said dmi and CH2M Hill have provided various methods for geotextile installation to GLDD, including staking the fabric.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. The monitors were active and reported to the monitoring website throughout the day.



- Transect Surface Water Sampling: Transect sampling was completed last Thursday December 5, 2013.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Gary Foster	CH2M Hill
Amy Picunas	CDM Smith

Site Representative: Amy Picunas

Date: 13-December-2013

Representative's signature:



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 14-Dec-2013	Report #: lpr_rm_10.9_Dec-14
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Overcast	Light Snow
Temperature	25 °F	26 °F
Wind Direction	12 mph NNE	13 mph NE

Description of work performed by contr. this report period:

- 0730-1100: GLDD installed a second geotextile fabric panel, starting at about 0745. Overall, the installation of the second panel, although slow, went much more smoothly as compared to the installation of the first panel. The following bullets describe the method/equipment used for installing the second panel:
 - The barges were deployed very close to shore at high tide and GLDD set up an anchor and winch system to provide better control of shoreline to channel movement of the barges (see photo log).
 - The Caterpillar excavator lowered the fabric roll and frame just above the water line. CDM Smith observed that GLDD welded an arrester bar along the front of the geotextile fabric roll frame (see photo log). Three GLDD personnel stood on the shoreline, tying down the fabric to tree trunks/branches on the shoreline. The purpose behind these actions was to provide better control over the fabric in the breezy conditions. It worked much better this time, as compared to the installation of the first panel.
 - Extra fabric was purposely installed at the shoreline (above the design elevation). GLDD will cut the fabric down to design elevation during low tide tomorrow.
 - Using the winch system, the barges were moved slightly offshore, towards the river channel (approximately 20 feet). The Fuchs excavator began placing Type A armor stone on the fabric to anchor the panel. Fabric installation continued in this manner out to the channel, the Fuchs excavator placed more stone on the panel every 10 – 20 feet, out to the channel.



- Overall the installation of the second geotextile panel went much more smoothly. It was performed in a controlled manner, the panel was installed flat (i.e., not bunched up) and in a straight line.
- 1100: GLDD informed CH2M Hill that no further work would occur today, partially due to inclement weather and partially to allow GLDD to hold more internal discussions on fabric installation plans.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

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Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. The monitors were active and reported to the monitoring website throughout the day.
- Transect Surface Water Sampling: Transect sampling was completed last Thursday December 5, 2013.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Gary Foster	CH2M Hill
Amy Picunas	CDM Smith

Site Representative: Amy Picunas

Date: 14-December-2013



Representative's signature:



December 14, 2013 0745: Second panel of geotextile fabric installation started.



December 14, 2013 0750: GLDD personnel tying off the panel to onshore tree branches/stumps. The fabric is being picked up by the wind, within moments of this photo; the CAT operator lowered the roll to just above the water surface, mitigating the effects of the wind on the fabric.



December 14, 2013 0755: GLDD installing first batch of Type A armor stone. Please note the fabric roll is tied off and the CAT operator has positioned it just above the water surface. The wind effects are well-mitigated.



A winch to provide controlled movement from shoreline to channel. There is a second winch on the south side of the Fuchs excavator, off screen.

CAT operator positioned fabric panel just above water surface. Fuchs operator periodically installing Type A stone, for anchorage.

December 14, 2013 0758: GLDD continuing installation of second panel. In total, panel installation took about 30 minutes.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 16-Dec-2013	Report #: lpr_rm_10.9_Dec-16
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	27 °F	30 °F
Wind Direction	8.1 mph W	11.5 mph NW

Description of work performed by contr. this report period:

- 0800-1430: No active capping took place today. GLDD have suspended their attempts to install geotextile fabric by the methods employed thus far, as they have been unable to lay the fabric flat in the desired locations. They have begun exploring alternative methods that will allow greater maneuverability with the fabric during installation.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1300: Per J Rolfe, a brainstorming session was held in the early afternoon between GLDD, CH2M Hill and dmi to come up with some improved techniques for installing the geotextile fabric. J Rolfe explained that three strategies were identified, listed below in the order that they will be attempted (should the previous one not work):
 - 1) Steel rebar will be installed on the fabric as it comes off the roll. The rebar will be sized to fit the width of the fabric (approximately 15 feet). Rebar will be installed at 20 foot intervals and will help weigh down the fabric and maintain its shape as it is placed in the water.
 - 2) Bamboo frames will be installed on the barge. The fabric will be placed on top of the bamboo and floated out onto the water. Once in the desired location, the armor stone will be placed, sinking the fabric and the frame together. One of the GLDD workers stated that this has been successful in Europe.
 - 3) A more rigid geocomposite will be used instead of the geotextile. J Rolfe showed B Hammond a spec sheet for GSE MineDrain.

**Sampling and Analyses:**

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. The monitors were active and reported to the monitoring website throughout the day.
- Transect Surface Water Sampling: Transect sampling was last completed on Thursday December 5, 2013.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Gary Foster	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 16-December-2013

Representative's signature:



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 17-Dec-2013	Report #: lpr_rm_10.9_Dec-17
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Light Snow	Light Snow
Temperature	26 °F	30 °F
Wind Direction	5.8 mph E	5.8 mph N

Description of work performed by contr. this report period:

- 0900-1130: GLDD attempted to install a panel of geotextile at high tide. As per discussions yesterday, reinforcing steel was used to try and maintain the shape of the geotextile during installation. Rebar was installed approximately every 15-20 feet as the geotextile was unrolled. Each piece of rebar was sized to span the width of the fabric panel. Small punctures were created in the fabric to thread through the rebar. Once the rebar was installed, the installation attempt was similar to attempts observed last week:
 - The geotextile fabric was pulled from the roll using the small tugboat, and then two deckhands hand-pulled the fabric to the desired location on the shore using a rope tied to each corner of the fabric. A substantial amount of time was spent hand-pulling on the fabric from the shore.
 - GLDD abandoned this attempt around 1130 as the tide began to go out and the current began to increase. They did not attempt to install armor stone over the fabric, and instead removed the fabric altogether.
 - The reason for abandoning the attempt was unclear, and it may have been simply that they were struggling to keep the fabric in the desired location. The amount of time that this effort required suggests that the method needs refinement.
 - Overall, the rebar appeared useful in maintaining the shape of the geotextile fabric, but did not reduce the difficulty of manipulating the fabric once it was submerged.
 - The major obstacles during today's attempt were 1) pulling and positioning the fabric by hand from the shore, and 2) the difficulty of working once the tide started to go out.



Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

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Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. The monitors were active and reported to the monitoring website throughout the day.
- Transect Surface Water Sampling: Transect sampling was last completed on Thursday December 5, 2013.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Gary Foster	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 17-December-2013

Representative's signature:



Geotextile Fabric with Rebar

GLDD installed rebar onto the geotextile fabric to help maintain its shape during installation. A piece is visible on the portion of fabric hanging off the side of the barge.



Abandonment of Installation Attempt

As a high tide passed, GLDD abandoned this installation attempt due to difficulties manipulating the fabric from the shoreline. They removed the fabric altogether, as shown above.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 18-Dec-2013	Report #: lpr_rm_10.9_Dec-18
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Mostly Cloudy
Temperature	20 °F	37 °F
Wind Direction	Calm	11.5 mph W

Description of work performed by contr. this report period:

- 1100-1300: GLDD attempted to install a panel of geotextile at high tide. Today they used a roll of a material that consisted of geotextile bound to a more rigid geocomposite grid. It was hoped that this material would lay flat, unlike the geotextile by itself.
 - The geotextile/geocomposite material was pulled from the roll using the Fuchs excavator, then dropped at the desired location. A deckhand was positioned on a boat to guide the exact placement of the material. The roll itself was suspended above the water by the Caterpillar excavator.
 - Armor stone was applied on top of the submerged geotextile to hold it in place, then the Caterpillar bucket (and the geotextile roll with it) was moved away from shore. More armor stone was applied as the geotextile came off the roll.
 - GLDD abandoned this attempt around 1300 because, despite the change in material, they continued to have trouble getting the material to lay flat. At one point the Fuchs operator dropped too much armor stone into the center of the geotextile, causing the center to sink and the outsides to fold over the top. This demonstrated that the material was not rigid enough for successful installation via the current method.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1000-1030: The weekly progress meeting was held at the field facility in Rutherford. The meeting was brief, and mostly dedicated to GLDD describing their plans for the day (installation attempt



using the improved material, as described in the previous section).

- 1330: Per S Kaczmarek, GLDD will formally propose alternative plans for installing the geotextile. These plans will be shared with the group as soon as possible.
- 1530: Per Roy (CH2M Hill), there will be no attempts at cap installation tomorrow (Thursday, December 19th), and the only in-river activity will be removing the material from the previous attempts.
- 1630: B Hammond contacted S Kaczmarek to let him know that he (BH) will be on site tomorrow to observe the geotextile removal and the potential for damage to the sand/AquaGate active layer during this process. B Hammond also asked whether GLDD will be removing the armor stone as well; S Kaczmarek responded that he believes they will.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. The monitors were active and reported to the monitoring website throughout the day.
- Transect Surface Water Sampling: Transect sampling was last completed on Thursday December 5, 2013.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill



Gary Foster Benjamin Hammond	CH2M Hill CDM Smith
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Site Representative: Benjamin Hammond

Date: 18-December-2013

Representative's signature:



Installation Attempt – Geotextile/Geocomposite

GLDD attempted to install geotextile bound to a more rigid geocomposite grid. The attempt was unsuccessful because they were again unable to have the material lay flat during armor stone placement.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 19-Dec-2013	Report #: lpr_rm_10.9_Dec-19
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	28 °F	47 °F
Wind Direction	5.8 mph SW	6.9 mph S

Description of work performed by contr. this report period:

- 0800-0930: GLDD removed the various geotextile panels that were placed unsuccessfully during the last two weeks.
 - Removal was performed with the Fuchs excavator, by pulling on portions of the geotextile floating on or near the water surface. Fabric was pulled out from underneath the armor stone and piled on an adjacent barge.
 - The armor stone was not removed, except for in rare cases when some stone was caught in bunched-up portions of geotextile.
- 1500: Returned to the site at low tide; a significant volume of armor stone was observed in the river (see accompanying photo). Also checked for evidence of damage to the active layer during the removal process, and did not see any; was only able to inspect non-submerged portion of active layer, though. There will be a greater risk of damage when GLDD returns to remove the armor stone from atop the active layer.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1500: Visited RM 10.9 with S. Kaczmarek (see bullet above). He agreed that the armor stone must be removed. B Hammond asked whether there might be any chance of collecting cores to confirm that the active layer is still 10 inches thick in this area. S Kaczmarek did not respond either way,



but noted that 10 inches would no longer necessarily be the target thickness, as settlement would have occurred over the last few weeks. He referenced the bench test in his office, which has settled to be less than 10 inches in thickness.

- 1530: S Kaczmarek provided some details regarding the upcoming schedule.
 - GLDD will be formally submitting new installation method proposals to CH2M Hill and dmi, which will in turn be shared with the entire group. GLDD says they will submit these by Monday, though Stan hopes to have them sooner.
 - In the meantime, there will be no work on Friday, December 20th, Saturday, December 21st, or Monday, December 23rd. The only in-river activity will be barge repositioning and tug movement.
 - There will be no work on Saturday, December 28th, either.
 - In-river activity will resume on Monday, December 30th.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. The monitors were active and reported to the monitoring website throughout the day.
- Transect Surface Water Sampling: Transect sampling was last completed on Thursday December 5, 2013.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill



Gary Foster Benjamin Hammond	CH2M Hill CDM Smith
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Site Representative: Benjamin Hammond

Date: 19-December-2013

Representative's signature:



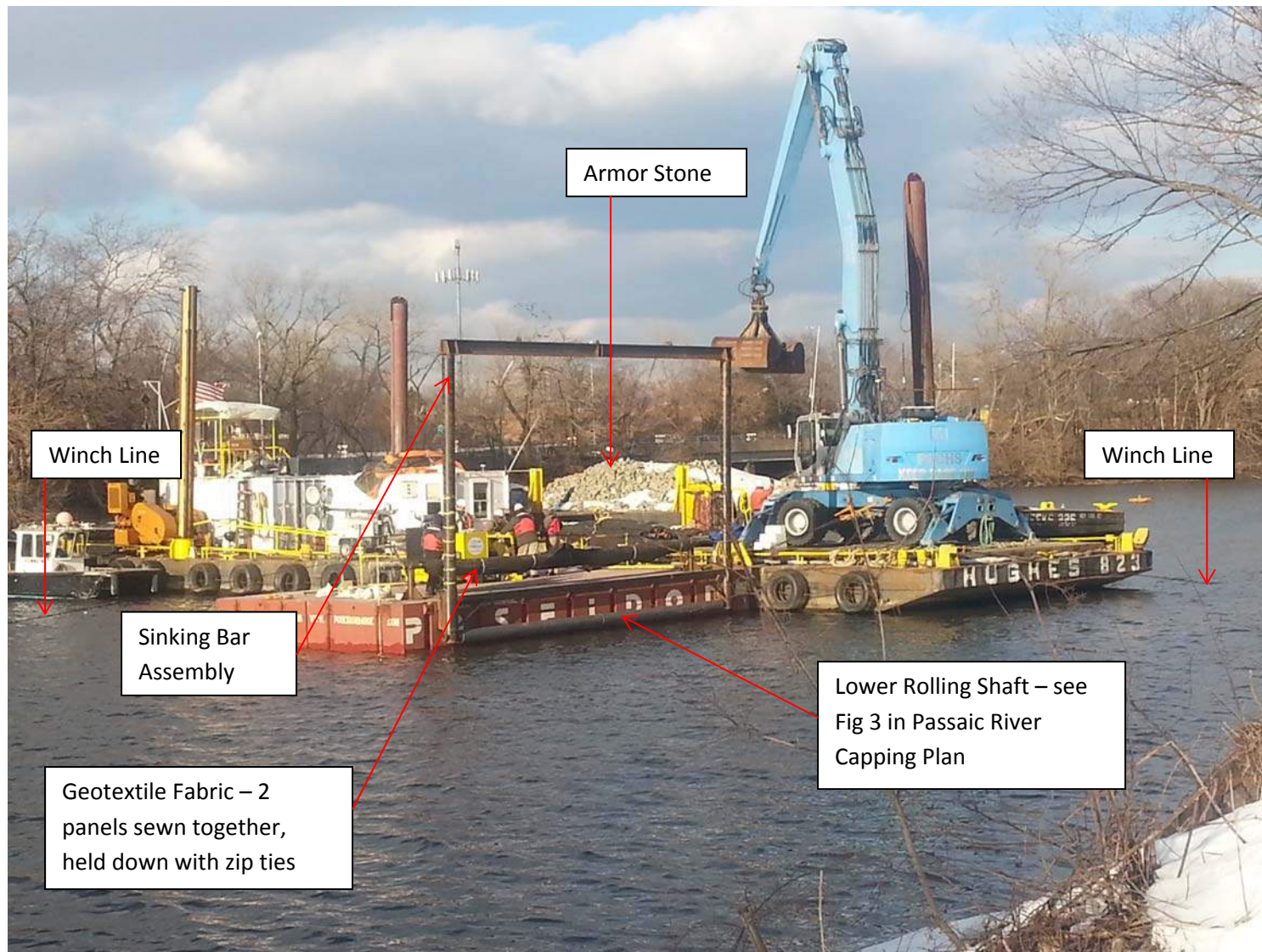
Geotextile Removal

GLDD removed the geotextile fabric that was placed during earlier unsuccessful attempts. The fabric was pulled out from beneath the armor stone, which was not removed. There will be no more in-river activity until Monday, December 30th.



Residual Armor Stone

The armor stone that was previously placed atop the geotextile fabric was not removed. It will need to be removed prior to the next attempt at geotextile placement. There was no clear evidence of damage to the active layer during the fabric removal, but only the non-submerged area could be judged.



Armor Stone

Winch Line

Winch Line

Sinking Bar
Assembly

Geotextile Fabric – 2
panels sewn together,
held down with zip ties

Lower Rolling Shaft – see
Fig 3 in Passaic River
Capping Plan

February 25, 2014 1610: New geotextile and armor stone placement assembly.



February 25, 2014 1610: Close-up of sinking bar assembly.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 26-Feb-2014	Report #: lpr_rm_10.9_Feb-26
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Overcast	Clear
Temperature	27 °F	30 °F
Wind Direction	9.2 mph SW	15 mph NW

Description of work performed by contr. this report period:

- 1030-1230: GLDD successfully installed a panel of geotextile with accompanying armor stone at the northern edge of the capping area
 - Installation was performed by attaching one edge of the 20-foot-wide geotextile panel, which consists of two panels sewn together, to trees at three points on the shoreline. The Fuchs excavator was used to then place armor stone on the geotextile to keep it in place at the shore. The sinking bar assembly was lowered and the Poseidon barge (carrying the roll of geotextile) was moved away from shore. The process of unrolling the geotextile and placing armor stone was performed very slowly and deliberately.
 - The sinking bar assembly was lowered twice during the installation of the panel, as the river depth increased away from shore. Each lowering required the Fuchs excavator and a man on a ladder to connect the bucket head and the assembly. GLDD conceded during the conference call at 1300 that this approach could and will be improved.
 - Armor stone was not installed on the southernmost strip (approximately 5 feet wide) of geotextile; instead, sand bags were thrown from the Poseidon barge to weigh down the submerged geotextile. The next panel of geotextile will overlap this area, therefore sand bags are implemented to avoid installing a layer of armor stone between overlapping panels.
- 1300-1600: GLDD spent the afternoon working on improved methods to raise and lower the sinking bar assembly, unfreezing the armor stone for tomorrow's work, performing minor tree trimming along



the shoreline, and setting up for Thursday's activities

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1300: The weekly progress conference call was held at the CPG facility in Rutherford. Items of note included the following:
 - GLDD described their successful geotextile panel installation and also stated the needed improvements, which included a method for raising/lowering the sinking bar assembly and the need for some tree trimming along the shore.
 - When asked about how they ensure even placement of armor stone across the entire capping area, GLDD responded that they have a sense of total buckets required per unit area, and that they also use GPS to track which locations have been visited by the armor stone bucket.
 - GLDD and CH2M Hill mentioned that, as previously related to EPA, thickness verification sampling of the active layer was performed during the shutdown period. The active layer was measured to be between 8.5 and 11 inches. They asked EPA if there would be a need to perform this sampling again with EPA oversight. A decision is not made at this time.
 - GLDD mentioned that there appears to be a sewer discharge location very near the current capping area, and they asked if the local authorities might refrain from releasing any significant flows while capping work is being performed. CPG said they would look into the matter.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 4 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5, which is the mobile buoy, is currently awaiting repairs at the CPG facility. The monitors were active and reported to the monitoring website throughout the day. The pH readings reported from the buoys may not be accurate, and CPG related this information to CH2M Hill. Recalibration may be necessary.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.



Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Gary Foster	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 26-February-2014

Representative's signature:



Geotextile Installation

GLDD installed one 20-foot-wide panel of geotextile at the northern edge of the capping area. The installation was performed using the sinking bar assembly. The photograph above shows the crew preparing to release the last few feet of fabric as the Poseidon barge moves away from the shore.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 27-Feb-2014	Report #: lpr_rm_10.9_Feb-27
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Overcast	Scattered Clouds
Temperature	18 °F	30 °F
Wind Direction	Calm	15 mph W

Description of work performed by contr. this report period:

- 0930-1130: GLDD attempted to install a second geotextile panel between stations 31+50 and 32+00 using the sinking bar assembly.
 - The first 30 feet (measured from the shore) of the 20-foot-wide panel were installed successfully.
 - The installation attempt ultimately failed; as armor stone was being placed, the ropes tethering the panel to the shoreline broke under the weight of the stone. Immediately after, the remaining geotextile fabric on the barge unspooled into the river. The geotextile fabric (a 20' by 60' panel) and armor stone washed out down the slope and into the river channel.
- 1200-1400: GLDD investigated the area where the geotextile placement was unsuccessful.
 - GLDD determined that there was a slope failure in the material beneath the geotextile. They found that the current elevation is lower than the initial pre-dredge elevation, meaning that some or all of the active layer may have been lost into the river channel. It is unclear whether the slope failure occurred today, caused by the armor stone placement, or if it happened before today and GLDD were unknowingly installing geotextile in a low spot. This area was previously acknowledged as a "sleep slope" area. The slope failure is localized, meaning that the areas north and south of this spot have higher, more normal elevations.
- 1400-1530: GLDD relocated the barge to south of station 31+00, where they will resume operations



while today's area is investigated. They prepared the sinking bar assembly and geotextile fabric for tomorrow's work.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1000: Spoke with Stan Kaczmarek about a possible NJDEP site visit at 11 o'clock on Tuesday, March 4th. Stan said that it would be difficult to confirm that GLDD will be installing geotextile at exactly this time, but said that there would be no reason a delay. He said that this time will align closely with high tide, which suggests that they would be working. He asked to be kept informed about the time and details of any NJDEP site visits.
- 1330: Met with Gary Foster, Roy Weller and Stan Kaczmarek at the field facility to gather the details of GLDD's investigation into the failed installation attempt this morning. The findings are discussed in the previous section.
- 1530: Spoke with Stan Kaczmarek about the geotextile panel that was lost in the river channel this morning.
 - At the suggestion that the panel might need to be removed, he said he would be hesitant to remove any armor stone (which presumably overlies the fabric) as it could be helping to stabilize the slope. He said that they will wait until GLDD thoroughly investigates the area between stations 31+50 and 32+00 before deciding if additional action should be taken regarding the residual fabric. He does not feel that it poses navigation-related danger in the river.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 4 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5, which is the mobile buoy, is currently awaiting repairs at the CPG facility. The monitors were active and reported to the monitoring website throughout the day. The pH readings reported from the buoys may not be accurate, and CPG related this information to CH2M Hill. Recalibration may be necessary.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.



List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Gary Foster	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 27-February-2014

Representative's signature:



Geotextile Installation

The Fuchs excavator was used to pull the edge of the fabric to the shore, where it was tethered to trees at three locations.



Sinking Bar Assembly Operation

This photograph was taken after the initial armor stone placement and immediately before the lowering of the sinking bar.



Washout and Yesterday's Progress

At the bottom right is the geotextile and armor stone installed yesterday. The geotextile and armor stone placed today, previously located to the left, washed down the slope and into the river channel.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 28-Feb-2014	Report #: lpr_rm_10.9_Feb-28
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	12 °F	25 °F
Wind Direction	6.9 mph NW	3.5 mph variable

Description of work performed by contr. this report period:

- 1000-1200: GLDD successfully installed a geotextile panel just south of Station 31+00.
 - The sinking bar assembly was generally able to keep the fabric flat while the armor stone was applied. Some effort was required to keep the northern edge of the fabric from folding under from the current.
 - Some turbidity was generated during armor stone placement. It is not washed stone. Turbidity plumes were minimal and did not migrate far from the placement location.
 - The geotextile installation is being performed from north to south, however GLDD skipped several panels after yesterday's washout between Stations 31+50 and 32+00, instead starting south of Station 31+00. Consequently there was no adjacent panel to the north on which to overlap today's panel. They will need to address the overlap between these two panels when they attempt to install the latter – it will not be possible to place the northern panel above the southern panel with sand bags in between (as is the current procedure).
 - As a result of the low overnight temperatures, there were ice floes in the river and many of them floated through the capping area. With the sinking bar assembly and through timely placement of the armor stone, however, most of the ice floated over of the geotextile fabric and the problem was mitigated.
- 1200-1500: GLDD were observed performing maintenance work, gathering armor stone from the second barge (stationed further south in the river) for transfer to the capping barge, and placing a



geotextile roll on the Poseidon barge. These measures were ostensibly in preparation for a second panel installation in the afternoon today. At 1500 John Rolfe and Gary Foster were informed that there would be no second panel installation today. GLDD cited that it was too late to begin a second panel. It seems that GLDD could have feasibly started the second panel hours earlier, and it is unclear why they did not. They will resume work tomorrow.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1045: Per John Rolfe, the current forecast is for significant snowfall on Sunday night and Monday. It is possible that there will not be any in-river operations on Monday, March 3rd.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 4 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5, which is the mobile buoy, is currently awaiting repairs at the CPG facility. The monitors were active and reported to the monitoring website throughout the day. The pH readings reported from the buoys may not be accurate, and CPG related this information to CH2M Hill. Recalibration may be necessary.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Gary Foster	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Representative's signature:

Date: 28-February-2014



Geotextile Installation

The Fuchs excavator was used to pull the edge of the fabric to the shore, where it was tethered at three locations before the first armor stone was placed.



Submerged Geotextile

In this photograph the water is relatively shallow, and as a result the installed geotextile fabric is visible. It is relatively flat beneath the armor stone. The panel shown here is about 75% installed (i.e., there's another 15-20 feet to go).



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 01-Mar-2014	Report #: lpr_rm_10.9_Mar-01
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Overcast
Temperature	20 °F	25 °F
Wind Direction	3.5 mph NW	10.4 mph SW

Description of work performed by contr. this report period:

- 0920-1050: GLDD installed a geotextile panel, beginning where they left off at the conclusion of yesterday's work.
 - The sinking bar assembly was generally able to keep the fabric flat while the armor stone was applied. Some effort was required to keep the northern edge of the fabric from folding under from the current.
 - Some turbidity was generated during armor stone placement. It is not washed stone. Turbidity plumes were minimal and did not migrate far from the placement location.
- 1225-1400: GLDD installed another geotextile panel.
 - After being prompted by dmi and CH2M Hill, GLDD made an increased effort to prevent the northern edge of the panel from drifting south with the current. They did this by threading ropes through the edge of the panel and holding them from the barge.
 - Currently the panels are being installed with an approximately three-foot-wide overlap between adjacent panels.
 - This panel was about 75 feet long.
- 1445-1615: GLDD installed a third geotextile panel.
 - This panel was installed practically at low tide. Tidal issues are not such a concern in this part of the capping area. As they move further south, into shallower waters, they will be prevented



from working at low tide.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1330: Asked John Rolfe whether the water quality monitoring buoys have been recalibrated; it was previously noted that they were giving questionable pH readings. He said that he saw a CH2M Hill e-mail on this topic in the last few days. He suggested that it be brought up at Wednesday's meeting, assuming it has not been resolved before then. (note: It was noticed at 1750 today that the buoys stopped reporting pH yesterday at 1315 and stopped reporting turbidity at 1245 today.)
- 1400: Mentioned a minor Health & Safety concern: the current geotextile installation method sometimes involves men on the barge holding onto ropes that are attached to the fabric, as the fabric is placed and loaded with armor stone. If there were a sudden increase in tension on the rope, someone could be pulled forward. John responded that it is only a risk if someone has the rope around his hand or wrist; otherwise the worker will let go of the rope. Furthermore there is typically not much tension, if any, on the rope.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 4 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5, which is the mobile buoy, is currently awaiting repairs at the CPG facility. After checking the monitoring website today at 1750, it appears that the buoys stopped reporting pH yesterday at 1315 and stopped reporting turbidity at 1245 today. This will be brought to the attention of dmi tomorrow.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

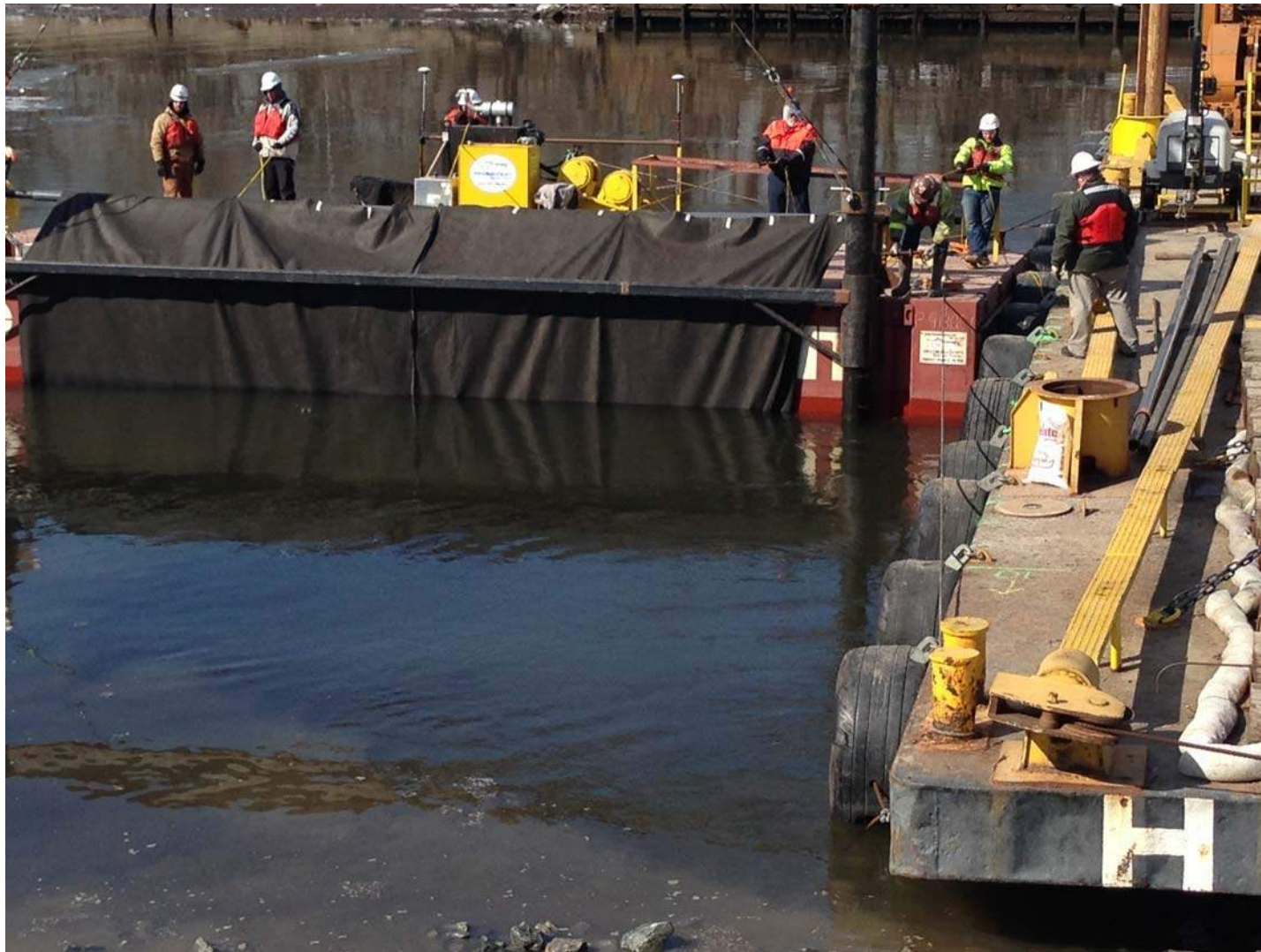


Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Gary Foster	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 1-March-2014

Representative's signature:



Influence of Current on Geotextile Installation

While the sinking bar assembly has mitigated most of the effects of the current, the above photo shows how the northern edge of the fabric continues to fold slightly. GLDD addressed this by threading ropes through the edge of the fabric and holding them from the barge.



End of Panel Installation

Once almost all of the panel has been submerged and anchored, the remaining few feet are unspooled and lowered by the workers, as shown above. This is a minor H&S concern, as it introduces the possibility of somebody being pulled forward, but realistically it will not be a problem if nobody has the rope wound around his hand/wrist.



Completed Geotextile Panels

The above photograph includes four completed geotextile panels, three of which were installed today. At the far right is yesterday's panel. The panels typically overlap by about three feet.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 02-Mar-2014	Report #: lpr_rm_10.9_Mar-02
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Overcast	Overcast
Temperature	40 °F	43 °F
Wind Direction	0.0 mph	0.0 mph

Description of work performed by contr. this report period:

- 0930 - 1210: Geotextile installation has not started.
 - Crew completed set up until 1030 this morning.
 - At 1000 observed the temporary storm water outfall built next to the pump house discharging into the river. No work was taking place at the time, but this is something that could affect the placement of the geotextile and active layer. Stan has discussed this with the town engineer, but they are unwilling to cooperate with controlling the discharge for the duration of work without monetary gain.
 - At 1050, Roy (Hill) let us know that during set up, a cable broke on the barge that needed to be welded back together. This continued to delay the start up time.
- 1230 - 1430: Geotextile installation has not started. The barge containing stone almost bottomed out due to low tide. The rock currently in the "Stymie" scow will now have to be switched out to the scow with the more shallow draft before work can continue.
- 1430: GLDD notified us that they would not place the geotextile panels today and that they would finish the day with switching the rock from one scow to the other.



Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- Had a discussion with Stan regarding the buoys. We discussed that the turbidity appears to be taking normal readings again, but pH still needs to be calibrated and he is aware of the situation.
- Also discussed with Stan the status of the slope failure. Currently the survey boat is in the shop undergoing repairs until Tuesday. It won't be until after that time that they will be able to conduct a proper survey of the area to determine the actual status of the failure.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 4 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5, which is the mobile buoy, is currently awaiting repairs at the CPG facility. After checking the monitoring website today at 1330, it appears that the buoys have started reporting turbidity normally today. However, the most recent pH readings are still logged from February 28, 2014 at 1315.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Gary Foster	CH2M Hill
Meredith Passaro	CDM Smith

Site Representative: Meredith Passaro

Date: 2-March-2014

Representative's signature:



Barge Set Up

No work is being done, barge is being moved into place to begin work.

Storm water Outfall

Stormwater outfall located next to current work area. Stan has tried to talk to the town engineer about timing when the outfall ejects water to ensure that it doesn't impact any of the work being completed on the river.





United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 03-Mar-2014	Report #: lpr_rm_10.9_Mar-03
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Overcast	Clear
Temperature	21 °F	23 °F
Wind Direction	16.1 mph NNW	8.1 mph NW

Description of work performed by contr. this report period:

- 1130-1250: GLDD installed a geotextile panel, beginning where they left off at the conclusion of Saturday's work.
 - They were delayed during the morning because of trouble getting the barge and the fabric positioned for installation. The current continues to interfere with this process, though the sinking bar assembly helps to mitigate its impact.
 - Some turbidity was generated during armor stone placement. Turbidity plumes were minimal and did not migrate far from the placement location.
- 1410-1520: GLDD installed another geotextile panel.
 - Currently the panels are being installed with an overlap of about two to three feet between adjacent panels. Attention must be paid to the northwest corner of each panel to make sure that the overlap is maintained between it and the southwest corner of the adjacent panel. This will be confirmed during the survey.
- 1615-1705: GLDD installed a third geotextile panel.
 - This is the first time that a panel was installed in under an hour.



Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1600: Per Stan Kaczmarek, the survey boat will be at RM 10.9 tomorrow to begin checking the geotextile placement and armor stone thickness in the northern end of the capping area.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 4 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5, which is the mobile buoy, is currently awaiting repairs at the CPG facility. The buoys reported turbidity to the monitoring website throughout the day. They have not reported pH since February 28th, as the probes are being recalibrated.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Gary Foster	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 3-March-2014

Representative's signature:



Installation of Rebar on Geotextile Fabric

GLDD attached the occasional length of rebar to the first geotextile panel installed today. The rebar was intended to prevent the fabric from folding with the current, and was generally successful.



Finished Geotextile Panels from Shore

Three panels were installed today. They, as well as the three panels from Saturday, are shown in the above photograph.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 04-Mar-2014	Report #: lpr_rm_10.9_Mar-04
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Mostly Cloudy
Temperature	14 °F	29 °F
Wind Direction	5.8 mph N	3.5 mph variable

Description of work performed by contr. this report period:

- 1100-1230: GLDD were observed transferring armor stone between barges, and repositioning both the main barge and the Poseidon barge in preparation for geotextile placement. Earlier in the morning they were performing maintenance on the barge.
 - There are reportedly only two geotextile panels available, so they will aim to install them both today. A delivery of geotextile is supposed to be received today.
- 1300-1345: GLDD discovered that one of the barge anchors needed to be reset.
- 1425-1525: GLDD installed a geotextile panel.
 - They appeared to maintain sufficient overlap with the adjacent panel.
 - Some turbidity was generated during armor stone placement. Turbidity plumes were minimal and did not migrate far from the placement location.
- 1530-1630: GLDD were observed preparing for the next geotextile panel but ultimately did not perform any more installation. They were also in the middle of obtaining the geotextile that was delivered to the site today.



Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1000: Per John Rolfe, OSHA was on the barge this morning interviewing workers about the incident on January 21, 2014.
- 1300: Mike Hoppe mentioned a Health and Safety concern: sometimes there are rocks stuck or frozen to the inside of the excavator bucket, and a worker standing underneath the open bucket could be at risk. This is a concern primarily during the raising and lowering of the sinking bar assembly.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 4 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5, which is the mobile buoy, is currently awaiting repairs at the CPG facility. The buoys reported turbidity to the monitoring website throughout the day. They have not reported pH since February 28th.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Gary Foster	CH2M Hill
Mike Hoppe	USEPA
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 4-March-2014

Representative's signature:



Resetting of Anchor

GLDD experienced a delay when it was noticed that an anchor had become dislodged. They pulled up the anchor and reset it.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 05-Mar-2014	Report #: lpr_rm_10.9_Mar-05
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Overcast	Overcast
Temperature	30 °F	31 °F
Wind Direction	Calm	8.1 mph N

Description of work performed by contr. this report period:

- 1010-1100: GLDD installed geotextile panel 28-N.
 - They appeared to maintain sufficient overlap with the adjacent panel.
 - Some turbidity was generated during armor stone placement. Turbidity plumes were minimal and did not migrate far from the placement location.
- 1300-1400: GLDD installed geotextile panel 27-N
 - Observed a discharge flow from the temporary substation. It did not interfere with the geotextile placement.
- 1530-1620: GLDD installed geotextile panel 26-N.
- 1700-1745: GLDD installed geotextile panel 25-N.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1300: The weekly progress conference call was held at the CPG facility in Rutherford. Items of note included the following:
 - GLDD described the progress since last week, which included the installation of panels 36-N down to 27-N. Panel 27-N was being installed as the meeting was taking place.



- GLDD verified that they are waiting for a repair to mobile water quality buoy #5, which will be redeployed once it is fixed.
- GLDD verified that sand and AquaGate are being shipped to RM 10.9 and will be used to repair the active layer as needed, especially in the slope failure area at geotextile panel 39-N.
- GLDD are not likely to work on Sunday, and may devote Monday and Tuesday to performing maintenance tasks rather than geotextile placement. The tide schedule is not particularly conducive to geotextile placement on these days. They may also rake the area south of the No-Dredge Zone to remove the geotextile and armor stone that was unsuccessfully placed in December.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 4 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5, which is the mobile buoy, is currently awaiting repairs at the CPG facility. The buoys reported turbidity to the monitoring website throughout the day. They have not reported pH since February 28th.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Gary Foster	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 5-March-2014



Representative's signature:



Progress by End of Day, March 5th, 2014

This photograph faces north and was taken from near the fire department boat launch. GLDD installed four panels today for a total of thirteen since beginning on February 26th.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 06-Mar-2014	Report #: lpr_rm_10.9_Mar-06
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn

Dredge Contractor: Todd King, GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	17 °F	30 °F
Wind Direction	12.7 mph NNE	4.6 mph ESE

Description of work performed by contr. this report period:

- 1445-1550: GLDD installed geotextile panel 24-N.
 - GLDD have arranged their schedule such that geotextile installation is performed during slack tide (i.e., after high tide), thus the start time is pushed back slightly each day. Today they were scheduled to start around 1130 but were further delayed by maintenance tasks.
 - In addition to general maintenance, the morning was spent transferring armor stone and geotextile rolls onto the main barge.
 - GLDD continue to use rebar to help prevent the fabric from folding over during installation. This, coupled with the sinking bar assembly, has been effective.
- 1715-1800: GLDD installed geotextile panel 23-N
 - They appeared to maintain sufficient overlap with the adjacent panel.
 - Some turbidity was generated during armor stone placement. Turbidity plumes were minimal and did not migrate far from the placement location.
 - Per John Rolfe (dmi), GLDD are placing the start of each geotextile panel approximately 5 feet closer to the shore than required, in order to be conservative. They are also adding a few additional feet on the other end.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

None

**Sampling and Analyses:**

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 4 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5, which is the mobile buoy, is currently awaiting repairs at the CPG facility. The buoys reported turbidity to the monitoring website throughout the day. They have not reported pH since February 28th.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
George	CH2M Hill
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Gary Foster	CH2M Hill
Mike Hoppe	USEPA
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 6-March-2014

Representative's signature:



Preliminary Armor Stone Thickness Check

GLDD placed a rod in the water, on a piece of plywood for support. They used the mobile GPS device to survey the geotextile elevation at this location and will survey the armor stone elevation as a preliminary check of armor stone thickness. The rod is visible in front of the excavator bucket.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 07-Mar-2014	Report #: lpr_rm_10.9_Mar-07
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn, Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	12:00 AM	
Weather	Clear	
Temperature	40 °F	
Wind Direction	Calm	

Description of work performed by contr. this report period:

- 1130-1315: S. Budney observed GLDD preparing to lay geotextile, pouring sand bags, prepping the ropes on the geotextile. GLDD was also repairing an anchor line that was broken.
- 1400-1500: S. Budney visited the field facility and met with S. Kaczmarek, he confirmed there was a problem with the anchor line and they were fixing it this morning. GLDD hoped to start laying geotextile by 1530.
- 1500-1550: S. Budney observed GLDD moving armor stone onto the barge in preparation to start laying geotextile.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1550: Per S. Kaczmarek, GLDD will not lay geotextile today due to the armor stone being frozen in the bottom of the barge. They are working to free the stone and prepare for Saturday. They will start again tomorrow at 0800 and then again in the afternoon at 1400.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.



- In-River Turbidity Monitoring: Buoys 1 – 4 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5, which is the mobile buoy, is currently awaiting repairs at the CPG facility.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek Benjamin Hammond	de maximis CDM Smith

Site Representative: Sharon Budney

Date: 7-March-2014

Representative's signature:



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 08-Mar-2014	Report #: lpr_rm_10.9_Mar-08
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	39 °F	54 °F
Wind Direction	Calm	13.8 mph WNW

Description of work performed by contr. this report period:

- 0830-0930: GLDD discovered that previously-installed geotextile panel 23-N had folded over itself from the flood tide. Panel 23-N was installed on Thursday, March 6th.
 - GLDD initially planned to use this window of time in the morning to install panel 22-N, but would not be able to proceed until 23-N was corrected.
 - The steel rebar installed on the fabric panels is meant to prevent folding; in this case it was unsuccessful.
 - GLDD decided to wait until after high tide to work on panel 23-N, so as to work with the tide instead of against it.
- 1400-1500: As reported by S. Kaczmarek, GLDD waited until slack tide, then tried and fix panel 23-N manually from the barge. They were unsuccessful.
 - Divers will be required to unfold and reposition panel 23-N.
 - They suspect that the current may have actually bent the rebar.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1500: Per S. Kaczmarek, GLDD will need to modify their Health and Safety Plan before they can bring in divers to work on Panel 23-N. The very earliest that panel installation will continue is Wednesday. Activities on Monday and Tuesday may include removing the geotextile and armor stone



that was unsuccessfully placed in in December.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 4 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5, which is the mobile buoy, is currently awaiting repairs at the CPG facility. The buoys have not reported turbidity to the website since March 6th. They have not reported pH since February 28th.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 8-March-2014

Representative's signature:



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 10-Mar-2014	Report #: lpr_rm_10.9_Mar-10
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Overcast	Scattered Clouds
Temperature	39 °F	50 °F
Wind Direction	9.2 mph SSW	1.5 mph WSW

Description of work performed by contr. this report period:

- 0900-1600: GLDD spent the day relocating the barges to the area south of the No-Dredge Zone in preparation for removal of the armor stone and fabric that was unsuccessfully placed in December.
 - GLDD hoped to proceed with fabric/stone removal by mid-day but they were delayed when the excavator broke down and required repairs.
 - There was no progress on panel 23-N, which was discovered folded over on Saturday afternoon and needs to be repositioned by divers before fabric installation can continue.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 2000: Received word from J. Rolfe that in-river activities at RM 10.9 on Tuesday would not begin until low tide at approximately 1200.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 4 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5, which is the mobile buoy, was repaired and is back in service. The buoys have not reported pH to the website since February 28th.



Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 10-March-2014

Representative's signature:



Barge and Scow Staging at RM 10.9

GLDD relocated the main barge and excavator to south of the No-Dredge Zone. They are pictured en route at around 1300. They hope to proceed with removing the unsuccessfully-placed armor stone and fabric from last December on Tuesday, March 11.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 11-Mar-2014	Report #: lpr_rm_10.9_Mar-11
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	47 °F	67 °F
Wind Direction	5.8 mph WSW	6.9 mph WNW

Description of work performed by contr. this report period:

- 1200-1745: GLDD removed the geotextile fabric and armor stone that was unsuccessfully placed south of the No Dredge Zone in December 2013.
 - They first marked out the approximate locations where the stone had accumulated, based on visual inspection and manual probing.
 - The removal was performed using the CAT excavator equipped with a rock sifting rake.
 - The removed armor stone was deposited alongside the not-yet-installed armor stone for reuse.
 - The rock sifting rake was effective at removing armor stone without bringing sand/AquaGate with it (i.e., very little sand/AquaGate was deposited onto the barge).
 - There was visible disturbance of the active layer, however, in that the sifting rake would gather a volume of stone and active layer, then shake out the active layer and allow it to resettle.
 - There were a few delays as GLDD waited for the tide to come in before moving the barge closer to the shore.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1530: Received word from J. Rolfe that GLDD hope to have the divers on-site tomorrow to reposition Panel 23-N. (*note: resolved on 3/12/14 without divers*)

**Sampling and Analyses:**

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 4 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5, which is the mobile buoy, was repaired and is back in service, but is not yet reporting turbidity to the monitoring website. The buoys have not reported pH to the website since February 28th.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 11-March-2014

Representative's signature:



Geotextile Fabric Removal

The rock sifting rake removed multiple sections of geotextile from the area south of the No Dredge Zone where fabric/stone installation was first attempted in December 2013.



Resettling of Active Layer

After gathering a load of armor stone and active layer, the operator shook out the half-submerged bucket to allow the active layer to resettle.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 12-Mar-2014	Report #: lpr_rm_10.9_Mar-12
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Haze
Temperature	47 °F	59 °F
Wind Direction	3.5 mph N	Calm

Description of work performed by contr. this report period:

- 1245-1330: GLDD successfully repositioned geotextile fabric panel 23-N, which had previously folded over during a flood tide.
 - They were able to hook the folded portion of the fabric and pull it slightly upward; the strong current (ebb tide) pulled the fabric out to the south and GLDD threw sand bags to lay the exposed fabric flat.
 - By fixing 23-N, GLDD were able to avoid having to implement divers to manually reposition the fabric.
- 1415-1505: GLDD installed geotextile panel 22-N
 - Sufficient overlap was observed with adjacent panel 23-N
 - Unlike with previous panels, no rebar was attached to panel 22-N. During the weekly meeting, GLDD suggested that the rebar may have actually complicated the situation with panel 22-N, and in the future they may not include rebar. Panel 22-N was installed at slack tide so it was not difficult to keep the fabric laying flat.
 - GLDD did not attempt another panel because the current was beginning to pick up. They are ill-equipped to install panels in the northbound current (flood tide).



Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1100: An hour after reporting that the Dive Plan was still awaiting approval, Stan Kaczmarek reported that CPG will direct CH2M/GLDD to continue geotextile operations even if panel 23-N cannot be unfolded. He said they would make one more attempt to fix it from the barge, and if unsuccessful, they would simply install panel 22-N to overlap with 23-N in its current position. He asked BH to notify CDM Smith/EPA to see if there would be objections. He mentioned that, after the fact, divers could be used to clean up the overlap between 23-N and 22-N (i.e., cut off excess fabric). This decision was caused by the difficulty in getting a Dive Plan approved and the urge to keep up production.
- 1300: The weekly progress was meeting was held at the CPG facility. Health and Safety, last week's progress, and this week's planned activities were discussed. Major points of discussion included the following:
 - GLDD were issued two citations by OSHA in relation to the on-barge accident in January.
 - Monitoring Buoy #5 has been redeployed but is not yet reporting to the website. GLDD said they would have it operational shortly.
 - The plan to continue fabric installation, as discussed in the previous bullet, was discussed. During the conversation, however, GLDD succeeded in unfolded fabric panel 23-N. It was concluded that no deviation from the normal procedure would be required, and that fabric installation could continue as usual.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 4 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5, which is the mobile buoy, was repaired and is back in service, but is not yet reporting turbidity to the monitoring website. The buoys have not reported pH to the website since February 28th.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.



Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Mike Hoppe	USEPA
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 12-March-2014

Representative's signature:



Panel 23-N Repositioning

GLDD hooked the exposed, folded-over edge of panel 23-N and pulled it upward. There was a strong ebb tide that then unfolded the fabric by carrying it to the south. They threw sand bags to keep the edge in position before installing panel 22-N.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 13-Mar-2014	Report #: lpr_rm_10.9_Mar-13
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Mostly Cloudy	Clear
Temperature	20 °F	28 °F
Wind Direction	18.4 mph NW	19.6 mph WNW

Description of work performed by contr. this report period:

- 1030-1130: GLDD installed geotextile fabric panel 21-N
 - The cold temperatures and severe winds this morning caused some delays as they waited for the equipment to warm up.
 - It was noted that the armor stone contains more sand than it did recently (note that it is not washed stone), which is causing some increased turbidity around the placement area. The turbidity plumes dissipate within approximately 100-200 feet.
- 1330-1430: GLDD installed geotextile panel 20-N
 - Sufficient overlap (3-4 feet) was observed with adjacent panel 21-N.
 - Similar to yesterday, GLDD are not attaching rebar to the geotextile panels during installation.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1200: Mentioned to S. Kaczmarek (dmi) that the monitoring website reported elevated turbidity values (greater than 100 NTU) at multiple buoys. He responded that it likely has to do with the substantial flow coming through Dundee Dam, due to increased snowmelt over the last few days. The elevated turbidity readings are unlikely to be related to capping operations.
- 1440: With S. Kaczmarek, visited the area south of the No-Dredge Zone where rock/fabric removal



took place on Tuesday. Noted that there is still some armor stone in the area that will likely need to be removed before geotextile installation can take place at this location. This visit was at low tide.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity to the monitoring website. With the exception of Buoy 5, the buoys have not reported pH to the website since February 28th.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 13-March-2014

Representative's signature:



Panel 20-N Installation

GLDD installed geotextile panel 20-N this afternoon. They are approaching the fire department boat launch, moving from north to south.



Remaining Stone After Removal Operation

Some armor stone was observed at low tide in the area where, on Tuesday, GLDD performed stone removal with the rock sifting fork. They will likely need to remove this rock and also take measurements of active layer thickness before geotextile is installed here.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 15-Mar-2014	Report #: lpr_rm_10.9_Mar-15
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Mostly Cloudy	Mostly Cloudy
Temperature	50 °F	55 °F
Wind Direction	34 mph WSW	23 mph WSW

Description of work performed by contr. this report period:

- 0930-1400: GLDD
 - Equipment is currently being readjusted and additional armor stone is being added to the barge.
 - GLDD is dealing with very strong winds that are affecting working conditions. The river is moving quickly.
- 1430-1500: GLDD installed geotextile panel 17-N
 - Sufficient overlap (3 feet) was observed with adjacent panel 18-N.
 - GLDD is not attaching rebar to the geotextile panels during installation.
- 1540-1625: GLDD installed geotextile panel 16-N
 - Sufficient overlap (3-4 feet) was observed with adjacent panel 17-N.
 - GLDD is not attaching rebar to the geotextile panels during installation.
- 1650-1715: GLDD begins installing geotextile panel 15-N
 - Sufficient overlap (3 feet) was observed with adjacent panel 16-N.
 - GLDD is not attaching rebar to the geotextile panels during installation.
 - GLDD will not complete this panel today, the tides are beginning to shift and the panel is being pulled. All exposed parts of the panel are covered with armor stone and the barge will remain in place until the morning when the panel will be completed.



Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

None Today

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity to the monitoring website. Buoy 5 is now reporting pH to the website once again.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Meredith Passaro	CDM Smith

Site Representative: Meredith Passaro

Date: 15-March-2014

Representative's signature:



Onsite Set Up

Equipment before work began for the day



Panel 17-N Preparation

GLDD preparing to install panel 17-N



Panel 17-N Installation

GLDD beginning to lay armor stone on top of panel 17-N.

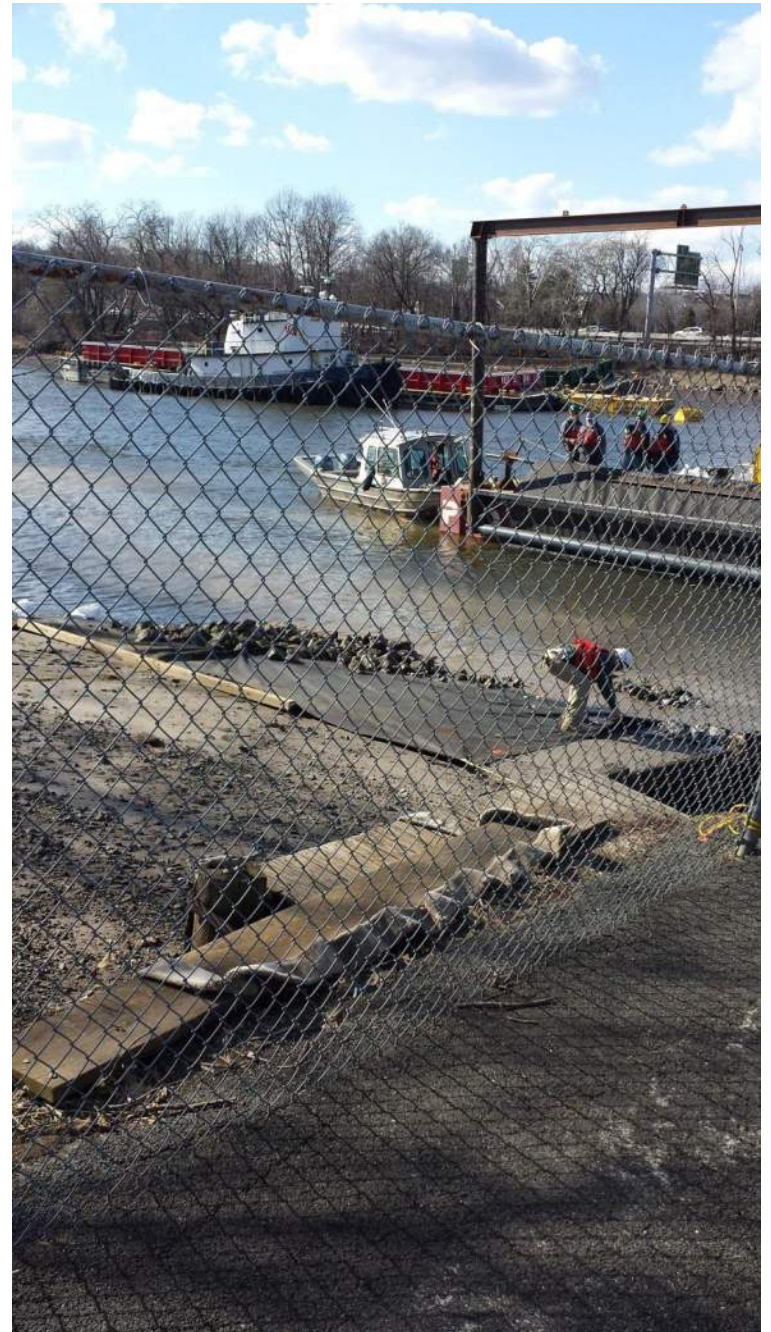
Panel 16-N Installation

GLDD laying armor stone on top panel 16-N. Good overlap is observed.



Trimming Panel 16-N

GLDD is trimming the top corner of panel 16-N to meet the design criteria.





United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 16-Mar-2014	Report #: lpr_rm_10.9_Mar-16
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	33 °F	36 °F
Wind Direction	12 mph NNW	11 mph NNW

Description of work performed by contr. this report period:

- 0800-0830: GLDD finished installing panel 15-N.
 - Sufficient overlap (3 feet) was observed with adjacent panel 16-N.
- 0900-1330: GLDD spent the rest of the day moving barges and resetting the anchors for work on Monday.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

None Today

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity to the monitoring website.



Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Meredith Passaro	CDM Smith

Site Representative: Meredith Passaro

Date: 16-March-2014

Representative's signature:



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 17-Mar-2014	Report #: lpr_rm_10.9_Mar-17
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Mostly Cloudy	Mostly Cloudy
Temperature	23 °F	33 °F
Wind Direction	9.2 mph N	5.8 mph variable

Description of work performed by contr. this report period:

- 1745-1845: GLDD installed geotextile panel 14-N.
 - GLDD initially intended to start panel installation around 1530 but were delayed by strong currents. The tide did not become slack until approximately 1700.
 - The morning was spent reconfiguring the barge setup; the barge is now on a winch system rather than a spud system. The winch system is anchored at two points on shore. One of the anchors is a CAT 420F backhoe staged near the fire department boat launch. The entire setup can now be moved from one panel location to the next without the use of tugboats.
 - Sufficient overlap was observed with adjacent panel 15-N.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

None today

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 4 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.



Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 17-March-2014

Representative's signature:



Backhoe Anchor

A winch system is now being used to move the main barge. It is anchored at two points on the shore, one of which is the backhoe shown above.



Panel 14-N Installation

With the new setup, the Poseidon barge is oriented parallel to the main barge rather than perpendicular beside it.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 18-Mar-2014	Report #: lpr_rm_10.9_Mar-18
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	28 °F	42 °F
Wind Direction	4.6 mph NE	9.2 mph ESE

Description of work performed by contr. this report period:

- 0915-1015: GLDD installed geotextile panel 13-N.
 - GLDD performed panel installation during the slack tide. They are now scheduling installations around high and low tide in order to avoid working in strong currents. The current has become more of an issue as the panels become longer. Panel 13-N was over 100 feet long.
- 1625-1715: GLDD installed geotextile panel 12-N.
 - Sufficient overlap was observed with adjacent panel 13-N.
 - The tide became too low for the excavator operator to finish applying armor stone on the east part of panel 13-N near the shore. After each panel is fully in the water, the operator will go back and finish applying a complete layer of stone atop the extent of the panel (not including the overlap area); in this case it will be completed tomorrow morning.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1630: Stan Kaczmarek mentioned that he plans to talk to GLDD about a possible health and safety concern.
 - With the winch system anchored at two points along the shore, he expressed some concern about the possibility of a wire snapping and injuring a bystander, should they be standing near



the shore.

- The outcome of this discussion is unknown at this time.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 4 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
George	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 18-March-2014

Representative's signature:



Panel 12-N Installation

Panel 12-N is approximately 120 feet long. Installation took about an hour but had to be performed during the slack tide to avoid interference from the current.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 19-Mar-2014	Report #: lpr_rm_10.9_Mar-19
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Overcast	Light Rain
Temperature	33 °F	44 °F
Wind Direction	4.6 mph NE	5.8 mph E

Description of work performed by contr. this report period:

- 1045-1200: GLDD installed geotextile panel 11-N.
 - GLDD were delayed twice when they needed to fix a pin on the excavator bucket.
 - GLDD performed panel installation during the slack tide. The excavator operator also finished installing armor stone on adjacent panel 12-N.
 - It was determined at 1615 that tidal conditions would not permit the installation of a second panel, so 11-N was the only panel installed today.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1300: The weekly progress conference call was held at the CPG facility in Rutherford. Items of note included the following:
 - GLDD verified that mobile water quality buoy #5 was fixed and has been redeployed.
 - GLDD stated that, beginning on Thursday, 3/20, they will only install one panel per day at high tide. They will begin 1 hour before high tide and attempt to complete each panel before the current picks up. This will be the plan at least for the next week.
 - There will be no work on Thursday, 3/27. There will be work on Sunday, 3/23.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.



- In-River Turbidity Monitoring: Buoys 1 – 4 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
George	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Mike Hoppe	USEPA
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 19-March-2014

Representative's signature:



Panel 11-N Installation

Panel 11-N was installed in slightly over an hour. The excavator operator also completed installing rock on adjacent Panel 12-N.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 20-Mar-2014	Report #: lpr_rm_10.9_Mar-20
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Overcast	Mostly Cloudy
Temperature	43 °F	53 °F
Wind Direction	8.1 mph WSW	16.1 mph W

Description of work performed by contr. this report period:

- 0945-1050: GLDD installed geotextile panel 10-N.
 - Sufficient overlap was observed with adjacent panel 11-N, although the new barge setup makes it more difficult to prevent the northern edge of the fabric from getting pulled slightly to the south.
 - Some minor turbidity was generated during armor stone placement; plumes generally dissipated within 100 feet of the work area.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1000: Discussed "Type B" armor stone with John Rolfe:
 - Mentioned having not yet seen the smaller "Type B" armor stone, even though it appears that GLDD have reached areas (i.e., high-subgrade areas) where it needs to be implemented near the shoreline.
 - He responded that, per Roy (CH2M), they used it along the shoreline at a few of the recent panels. This will be verified at low tide when there is an opportunity.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 4 are set up to collect turbidity readings continuously. Buoy



1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. Stan Kaczmarek noted in an e-mail that, per GLDD/CH2M, the Buoy 1 turbidity probe is malfunctioning and needs to be replaced. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
George	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Mike Hoppe	USEPA
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 20-March-2014

Representative's signature:



Panel 10-N Installation

Panel 10-N was installed in the morning. With the new barge setup (using the winch system) GLDD are having slightly more difficulty maintaining the position of the fabric at its northern edge, as pictured above.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 21-Mar-2014	Report #: lpr_rm_10.9_Mar-21
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Overcast	Clear
Temperature	40 °F	51 °F
Wind Direction	10.4 mph WNW	12.7 mph NW

Description of work performed by contr. this report period:

- 1025-1115: GLDD installed geotextile panel 9-N.
 - Sufficient overlap was observed with adjacent panel 10-N (between 2 and 3 feet).
 - Some minor turbidity was generated during armor stone placement; plumes generally dissipated within 100 feet of the work area.
 - GLDD were observed using a small amount of type B armor stone near the shore.
- 1200-1305: GLDD installed geotextile panel 8-N.
 - Tidal conditions today were conducive to performing two installations at high tide.
 - GLDD were observed using a small amount of Type B armor stone near the shore.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1130: Stan Kaczmarek mentioned preliminary details from a meeting with CH2M Hill and GLDD this morning.
 - He said that they may have GLDD commit to a firm end date of May 8th to complete the capping, habitat layer, surveying, and demobilization.
 - This will be communicated to EPA/CDM once it is finalized.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.



- In-River Turbidity Monitoring: Buoys 1 – 4 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. The Buoy 1 turbidity probe is malfunctioning and needs to be replaced. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
George	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 21-March-2014

Representative's signature:



Panel 8-N Installation

This panel was well over 100 feet in length and installation took about one hour.



Type B Armor Stone

The Type B armor stone is visible at low tide on the edges of panels 10-N, 9-N and 8-N. GLDD may need to return to panels N-14 through N-17 to apply the Type B stone near the shore.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 22-Mar-2014	Report #: lpr_rm_10.9_Mar-22
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Scattered Clouds
Temperature	42 °F	63 °F
Wind Direction	9.2 mph SE	20.7 mph WNW

Description of work performed by contr. this report period:

- 1100-1215: GLDD installed geotextile panel 7-N.
 - Sufficient overlap was observed with adjacent panel 8-N (between 2 and 3 feet).
 - Some minor turbidity was generated during armor stone placement; plumes generally dissipated within 100 feet of the work area.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

None today

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 4 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. The Buoy 1 turbidity probe is malfunctioning and needs to be replaced. All buoys are reporting turbidity and pH to the monitoring website.



Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
George	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 22-March-2014

Representative's signature:



Panel 7-N Installation

This geotextile panel was installed in slightly over an hour. GLDD were able to maintain sufficient overlap between Panels 7-N and 8-N.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 23-Mar-2014	Report #: lpr_rm_10.9_Mar-23
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Partly Cloudy	Partly Cloudy
Temperature	40 °F	40 °F
Wind Direction	6.9 mph NNW	12.7 mph NNW

Description of work performed by contr. this report period:

- 1245-1410: GLDD installed geotextile panel 6-N.
 - Sufficient overlap was observed with adjacent panel 7-N
 - Some minor turbidity was generated during armor stone placement; plumes generally dissipated within 100 feet of the work area.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1300: Per John Rolfe, it is possible that GLDD will be asked to work on Thursday, March 27th. The current plan is to take this day off. This will be finalized in the coming days.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 4 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. The Buoy 1 turbidity probe is malfunctioning and needs to be replaced. All buoys are reporting turbidity and pH to the monitoring website.



Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
George	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 23-March-2014

Representative's signature:



Panel 6-N Installation

GLDD are on pace to complete geotextile panel installation north of the No-Dredge Zone in the next week.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 24-Mar-2014	Report #: lpr_rm_10.9_Mar-24
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	23 °F	35 °F
Wind Direction	10.4 mph NW	10.4 mph NNW

Description of work performed by contr. this report period:

- 1420-1535: GLDD installed geotextile panel 5-N.
 - Some tree trimming had to be performed to manage branches that were hanging over the work area.
 - Sufficient overlap was observed with adjacent panel 6-N
 - The sinking bar assembly was effective at keeping the geotextile fabric flat during installation.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1425: BH mentioned to Stan that, as of yesterday, multiple water quality monitoring buoys were reporting negative values and must be recalibrated. Stan notified CH2M Hill and GLDD.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 2 – 5 are set up to collect turbidity readings continuously. Typically, Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy, but Buoy 1 has not been functioning properly. GLDD replaced it with Buoy 5, which is typically the mobile buoy, until repairs are made. Buoys 2 through 5 are reporting turbidity and pH to the monitoring website. It was noted that multiple buoys are reporting negative turbidity values; they will be recalibrated.



Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Gary Foster	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 24-March-2014

Representative's signature:



Panel 5-N Installation

Installation of geotextile panel 5-N took slightly over an hour. As shown above, the geotextile fabric was unrolled from the Poseidon barge with minimal bunching.



Backhoe Anchor

Prior to installing Panel 5-N, GLDD relocated the northern winch anchor (a CAT 420F backhoe) to the south.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 25-Mar-2014	Report #: lpr_rm_10.9_Mar-25
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Scattered Clouds	Clear
Temperature	27 °F	39 °F
Wind Direction	3.5 mph N	8.1 mph S

Description of work performed by contr. this report period:

- 1500-1615: GLDD installed geotextile panel 4-N.
 - Panel 4-N is approximately 150 feet long.
 - Sufficient overlap was observed with adjacent panel 5-N.
 - The sinking bar assembly was effective at keeping the geotextile fabric flat during installation.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1430: John Rolfe indicated that GLDD will probably work on Thursday and Friday, with work not starting until approximately 1800 on Friday, and take Saturday off. They will resume on Sunday, March 30th, early in the morning at high tide.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 4 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoys 1 through 4 are reporting turbidity and pH to the monitoring website. All 4 buoys appear to be reporting accurate values. Buoy 5, which is typically the mobile buoy, is reporting negative turbidity values and needs to be repaired and/or recalibrated.



Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Gary Foster	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 25-March-2014

Representative's signature:



Panel 4-N Installation

Geotextile panel 4-N is approximately 150 feet long and installation took slightly over an hour.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 26-Mar-2014	Report #: lpr_rm_10.9_Mar-26
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Scattered Clouds	Partly Cloudy
Temperature	34 °F	39 °F
Wind Direction	13.8 mph NNW	25.3 mph S

Description of work performed by contr. this report period:

- 1640-1800: GLDD installed geotextile panel 3-N.
 - Severe winds delayed high tide by pushing water out into the bay. GLDD started approximately 45 minutes later than planned.
 - Sufficient overlap was observed with adjacent panel 4-N.
 - The sinking bar assembly was effective at keeping the geotextile fabric flat during installation.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

None today

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website. All were recently recalibrated, after negative turbidity values were observed at multiple buoys.



Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 26-March-2014

Representative's signature:



Panel 3-N Installation

Geotextile panel 3-N was installed successfully despite severe wind. Approximately 2-3 feet of overlap was observed between Panels 3-N and 4-N.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 27-Mar-2014	Report #: lpr_rm_10.9_Mar-27
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	25 °F	45 °F
Wind Direction	4.6 mph NW	11.5 mph S

Description of work performed by contr. this report period:

- 1720-1850: GLDD installed geotextile panel 2-N.
 - Sufficient overlap was observed with adjacent panel 3-N.
 - The sinking bar assembly was effective at keeping the geotextile fabric flat during installation.
 - The winch system is anchored by two CAT 420F backhoes in Riverside Park, one north of the setup and one south of the setup.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1620: Per John Rolfe, GLDD decided that they will transition from working during evening high tide to working during morning high tide beginning tomorrow (3/28) instead of Sunday (3/30), as initially planned. Geotextile panel installation is therefore expected to begin on Friday around 0630.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.



Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 27-March-2014

Representative's signature:



Panel 2-N Installation

Geotextile panel 2-N was installed at high tide between 1720 and 1850. Beginning tomorrow, Friday, March 28th, GLDD will transition to the morning high tide instead of the evening.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 28-Mar-2014	Report #: lpr_rm_10.9_Mar-28
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	6:30 AM	
Weather	Partly Cloudy	
Temperature	35 °F	
Wind Direction	9.4 mph NW	

Description of work performed by contr. this report period:

- 0625-0700: GLDD on the river preparing to install geotextile, operator arrived in the park to check equipment used as land anchors.
- 0700-0845: GLDD installed geotextile panel 1-N
 - Sufficient overlap was observed with adjacent panel 2-N.
 - The sinking bar assembly was effective at keeping the geotextile fabric flat during installation.
 - The winch system is anchored by two CAT 420F backhoes in Riverside Park, one north of the setup and one south of the setup.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 0900: Per John Rolfe, GLDD may install another panel at the next high tide to take advantage of good conditions, prior to the storm expected this weekend.
- 1640: Stan Kaczmarek called to say GLDD has canceled operations this evening, water level is too low to allow near shore access.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.



- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe Sharon Budney	de maximis CDM Smith

Site Representative: Sharon Budney

Date: 28-March-2014

Representative's signature:



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 30-Mar-2014	Report #: lpr_rm_10.9_Mar-30
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	45 °F	42 °F
Wind Direction	10 mph W	18 mph N

Description of work performed by contr. this report period:

- 0730 - 0820: Was informed by Stan upon arriving to the site that no work would most likely be taking place today due to river flows in excess of 5,000 cfs from yesterday's rain storm. He stated that GLDD was still going to try to lay rock today if possible.
 - Received call from Roy (CH2M Hill) at 8:00 stating that no work would take place today, although the plans changed.
- 0930 – 1000 GLDD laid stone in lower areas near most recently placed panels.
- 1000 – 1500: GLDD spent the rest of the day moving anchors and barges up towards panels 38 – 35. More stone needs to be placed in these areas and the slope failure still needs to be addressed. More rain is expected into tomorrow morning which could once again affect production.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1030: Spoke with Roy about areas where the slope previously failed and asked about what GLDD plans to do about these areas. He did not have very specific plans, but stated that GLDD was working off a survey that was completed this past week. In general the plan is to try and retrieve the lost panel and then work to stabilize the slope and place panels 37 and 38. He was not able to provide any information in regards to the state of the active layer in these areas.



Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. All five Buoys were reporting turbidity readings in excess of 30 NTU's today, however no work took place and these readings are most likely attributed to the high river flows from yesterday's storm. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Meredith Passaro	CDM Smith

Site Representative: Meredith Passaro

Date: 30-March-2014

Representative's signature:



Onsite Set Up

Taken at 12:00 pm, no onsite activity taking place.



Onsite Set Up

Stone is staged up near northern panels past the pump station.



Onsite Set Up

Crews are still located closer to most recently laid panels, adjacent to the park.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 31-Mar-2014	Report #: lpr_rm_10.9_Mar-31
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Light Rain	Clear
Temperature	38 °F	56 °F
Wind Direction	8.1 mph N	11.5 mph NNW

Description of work performed by contr. this report period:

- 0930-1600: GLDD applied armor stone to areas north of the No Dredge Zone requiring additional stone. High river flows, caused by the recent rain, prevented geotextile installation from occurring today.
 - Work began at the northern boundary of the capping area and moved south, ending at the fire department boat launch. This activity was performed yesterday from the No Dredge Zone to the fire department boat launch.
 - Locations were chosen based on GLDD's internal surveys, the results of which have not yet been made available to CH2M Hill, de maximis, or EPA/CDM Smith. Stone was placed to meet the minimum thickness requirement across the capping area.
 - Rather than utilizing the winch system, a tug was used to move the main barge between locations.
 - GLDD originally planned to remove some residual armor stone from south of the No Dredge Zone in the afternoon at low tide. This is the stone that was mostly, but not entirely, removed on March 11th. The water level was too high to perform this activity today.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1300: Discussed GLDD's removal of geotextile panel 39-N this morning with S. Kaczmarek:
 - Per Stan, the armor stone was removed as well.
 - Cores will be collected to verify that the active layer still meets the specified thickness



requirements; CDM Smith will be informed of when this activity is going to take place.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Mike Hoppe	USEPA
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 31-March-2014

Representative's signature:



Armor Stone Installation North of NDZ

Most of the day was spent adding armor stone to the areas north of the No Dredge Zone where geotextile fabric and armor stone have been installed but where GLDD's surveys showed insufficient armor stone thickness.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 1-Apr-2014	Report #: lpr_rm_10.9_Apr-01
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	40 °F	60 °F
Wind Direction	6.9 mph NW	6.9 mph WNW

Description of work performed by contr. this report period:

- 0900-1400: GLDD applied armor stone to areas north of the No Dredge Zone requiring additional stone. High river flows, caused by the recent rain, prevented geotextile installation from occurring today.
 - The survey boat was observed in the capping area throughout the day.
 - GLDD originally planned to remove some residual armor stone from south of the No Dredge Zone in the afternoon at low tide. This is the stone that was mostly, but not entirely, removed on March 11th. It was eventually decided that this activity will be performed tomorrow instead.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 0900: Received word from John Rolfe that, though substantial flows in the river will prevent panel installation today, GLDD plans to finish placing armor stone in low spots and will rake armor stone from south of the No Dredge Zone in the afternoon.
- 1300: Received word from John Rolfe that raking the area south of the No Dredge Zone will be delayed until tomorrow. GLDD will also apply sand and AquaGate as needed.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.



- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 1-April-2014

Representative's signature:



Armor Stone Raking Locations

In the course of surveying the capping area today, GLDD marked out the locations where some armor stone needs to be removed before geotextile installation can proceed. Armor stone removal, though originally planned for today, will in fact take place tomorrow morning.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 2-Apr-2014	Report #: lpr_rm_10.9_Apr-02
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Partly Cloudy
Temperature	47 °F	51 °F
Wind Direction	8.1 mph ESE	8.1 mph SSW

Description of work performed by contr. this report period:

- 0800-1130: GLDD removed residual armor stone from south of the No Dredge Zone. This is the stone that was mostly, but not entirely, removed on March 11th after it was part of the unsuccessful panel installation attempts in December 2013. After the stone was removed they placed sand and AquaGate over the disturbed area for approximately an hour.
 - Removal of armor stone was performed using the Fuchs excavator bucket instead of the rock sifting fork.
 - Two cores were collected in the disturbed area prior to placement of additional sand and AquaGate. The active layer thickness was 8.5 inches in one core and 9.1 inches in the other.
 - Sand and AquaGate were mixed and placed using the Fuchs excavator bucket.
 - At the end of the morning, the main barge and Poseidon barge were relocated to the southern boat launch for installation of the fabric chute this afternoon. The fabric chute is meant to mitigate the impact of the current during fabric placement.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1300: The weekly progress conference call was held at the CPG facility in Rutherford. Items of note included the following:
 - Currently geotextile panel installed is 39% complete by total area, with 50% of all panels installed.



- GLDD should continue regular panel installation tomorrow (Thursday, April 3rd). They have been delayed by higher-than-average flows.
- The May 8th capping completion date remains unchanged.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 2-April-2014

Representative's signature:



Active Layer Thickness Coring

GLDD collected two cores in the area south of the No Dredge Zone where armor stone removal was performed today. The active layer thickness measured 8.5 inches in one core and 9.1 inches in the other core. Supplemental sand and AquaGate were then applied to this area.



Supplemental Active Layer Placement

Using the Fuchs excavator bucket, a mixture of sand and AquaGate was applied to the disturbed area. The application was performed steadily for an hour.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 3-Apr-2014	Report #: lpr_rm_10.9_Apr-03
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	48 °F	65 °F
Wind Direction	5.8 mph NE	Calm

Description of work performed by contr. this report period:

- 1000-1430: GLDD were not able to place any geotextile panels due to increased flow at RM 10.9 from the heavy rainfall last weekend. They have not placed any panels since Friday, March 28th. The following tasks were observed:
 - GLDD reconnected the cables to the winch system, having previously disconnected the system to move the barges with a tugboat during supplemental armor stone placement.
 - GLDD performed some minor tree trimming and branch removal in the capping area.
 - They began constructing the fabric chute, though this work was performed inside the Weeks 327 scow and was therefore difficult to monitor.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1330: Inquired with John Rolfe regarding the status of the Panel 39-N area; he said that he is not aware of any imminent plans to perform coring or to reattempt fabric installation. CDM Smith will be informed of any activities in this area before they occur.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy



1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Grace Chen	CDM Smith
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 3-April-2014

Representative's signature:



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 4-Apr-2014	Report #: lpr_rm_10.9_Apr-04
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Rain	Light drizzle
Temperature	45 °F	41 °F
Wind Direction	8.1 mph ESE	8.1 mph E

Description of work performed by contr. this report period:

- 0930-1530: GLDD were not able to place any geotextile panels due to increased flow at RM 10.9 from the heavy rainfall last weekend. They have not placed any panels since Friday, March 28th. The following tasks were observed:
 - GLDD continued working on the fabric chute. Per Roy (CH2M Hill), they still have another day of welding before it is complete. The work is performed inside the Weeks 327 scow, though at one point GLDD held the unfinished chute up to the Poseidon barge to verify the size.
 - It was determined around 1300 that there would be no panel installation today. There was a strong outgoing flow throughout the day from water over Dundee Dam, even during the incoming tide.
 - GLDD were observed receiving more geotextile fabric and loading it onto the barge.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys



are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 4-April-2014

Representative's signature:



Fabric Chute

Early in the day GLDD lifted the fabric chute out of the Weeks barge (red, shown above), where it is being manufactured, and held it up to the Poseidon barge to verify the sizing. There is still another day of welding required before the fabric chute is completely built.



Fabric Chute

The unfinished fabric chute, shown from the side.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 5-Apr-2014	Report #: lpr_rm_10.9_Apr-05
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Overcast
Temperature	44 °F	55 °F
Wind Direction	3.5 mph SW	18.4 mph WNW

Description of work performed by contr. this report period:

- 1130-1600: GLDD were not able to place any geotextile panels due to increased flow at RM 10.9 from the heavy rainfall last weekend. They have not placed any panels since Friday, March 28th. The following tasks were observed:
 - GLDD continued manufacturing the fabric chute. The work is performed inside the Weeks 327 scow.
 - GLDD performed maintenance tasks on the main barge and the Poseidon barge.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- None

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.



Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 5-April-2014

Representative's signature:



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 6-Apr-2014	Report #: lpr_rm_10.9_Apr-06
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	12:30 PM	
Weather	Clear	
Temperature	54 °F	
Wind Direction	7 mph WSW	

Description of work performed by contr. this report period:

- 1310-1445 – GLDD installed geotextile panel N-0 and covered it with stone. Flow at Dundee Dam was 3090 cfs.
 - GLDD is not using the geotextile shroud. The winch system is installed on the barge and is now being used to lower the sinking bar, saving some time during installation. Additional fabrication is needed for the chute.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- There are a number of people using the park. Some stop to watch the installation of the panels and approach Stan and me for an explanation of the work being performed. Additional attention will need to be paid to the construction equipment used as anchors located in the park. The areas surrounding them are marked with caution tape.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.



Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Roy Weller	CH2M Hill
Sharon Budney	CDM Smith

Site Representative: Sharon Budney

Date: 6-April-2014

Representative's signature:



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 7-Apr-2014	Report #: lpr_rm_10.9_Apr-07
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Overcast, Windy	Rain
Temperature	47 °F	41 °F
Wind Direction	15 mph ESE	15 mph E

Description of work performed by contr. this report period:

- 1230-1430: GLDD was not able to place any geotextile panels due to the low water level at RM 10.9.
 - 1230: The Weeks scow filled with armor stone was next to the crane barge and spud barge. The shroud was not installed on the geotextile barge. They need additional time to construct the shroud. The geotextile was placed on the geotextile barge.
 - 1315: They positioned the barges close to the east bank, but not in position of placing the panel. The crane used the clam bucket to locate the edge of the panel placed in the previous day (Sunday 4/7/2014, and also seems to smooth out the armor stone under water. GLDD personnel checked the water depth and flow rate.
 - 1400 Roy (CH2M Hill) informed John (de maximis) that the water level has been dropping fast, even though the high tide is around 1530.
 - 1410 GLDD pulled back the barges to the middle of the river. CH2M Hill and GLDD discussed what to do. Then informed John that they would not be able to place a panel today. They will continue working on the shroud.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.



- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Grace Chen	CDM Smith

Site Representative: Grace Chen

Date: 7-April-2014

Representative's signature:



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 8-Apr-2014	Report #: lpr_rm_10.9_Apr-08
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Light Rain	Overcast
Temperature	51 °F	61 °F
Wind Direction	Calm	13.8 mph W

Description of work performed by contr. this report period:

- 1500-1620: GLDD installed geotextile panel 00-N.
 - The panel was installed using the newly-configured fabric shroud. When using the shroud, the fabric is impacted less by the horizontal force of the river current. This allows the vertical portion of the fabric to pass through the water column without bunching.
 - The fabric shroud is raised and lowered by the winch system, which allows the excavator to be used only for armor stone placement.
 - Minimal turbidity was observed during armor stone placement.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1530: Reviewed upcoming schedule with John Rolfe:
 - He expects that the transition from evening high tide work to morning high tide work will take place on Thursday.
 - GLDD reported that they still need to remove some more rocks from south of the No Dredge Zone, and may complete this task on Thursday.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.



- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 8-April-2014

Representative's signature:



Installation of Panel 00-N with Fabric Shroud

The installation procedure is mostly unchanged. The difference is that, instead of exposed fabric passing vertically through the water column, it is now inside a casing that mitigates the effect of the river current. The assembly is raised and lowered using the winch system.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 9-Apr-2014	Report #: lpr_rm_10.9_Apr-09
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Scattered Clouds
Temperature	47 °F	59 °F
Wind Direction	4.6 mph NW	19.6 mph NNW

Description of work performed by contr. this report period:

- 1630-1815: GLDD installed geotextile panel 000-N.
 - GLDD have completed geotextile installation north of the No Dredge Zone, with the exception of panels 37-N through 39-N.
 - The fabric shroud was effective at preventing bunching during geotextile placement.
 - Armor stone was placed across the entire width of the panel, as opposed to other panels where space is left for the overlap; there will be no overlapping panel.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1530: Was informed by Roy (CH2M Hill) that GLDD manually removed armor stone from south of the No Dredge Zone early this afternoon.
 - He said that mechanical equipment was not involved; the rock was removed by walking out from the shore at low tide. This is rock that could not be reached by the excavator during the rock removal activity on April 2nd.
 - He said that two cores were collected and that they contained 10 and 12 inches of active layer, respectively. He will send photographs to Stan for distribution to CDM/EPA.
- 1800: Stan Kaczmarek stated that, if desired by EPA/CDM, he will direct CH2M/GLDD to collect additional cores on Thursday with CDM oversight.

**Sampling and Analyses:**

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 9-April-2014

Representative's signature:



Fabric Shroud Setup Pre-Installation

The geotextile fabric panel passes through the top of the fabric shroud, then out the bottom. There is a rolling bar at the bottom, similar to the sinking bar assembly. Installation begins by placing the two corners (shown above) at the desired location and applying armor stone.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 10-Apr-2014	Report #: lpr_rm_10.9_Apr-10
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	43 °F	61 °F
Wind Direction	Calm	15.0 mph S

Description of work performed by contr. this report period:

- 1600-1720: GLDD installed geotextile panel 31-S.
 - Panel 31-S is the first geotextile panel installed south of the No Dredge Zone.
 - Type B armor stone was applied over the first 20-30 feet of panel, starting at the shore, to cover the high-subgrade areas.
 - The two CAT 420F backhoes, which are stationed in the park and serve as anchors for the winch system, were moved south earlier today.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.



Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 10-April-2014

Representative's signature:



Type B Stone at Panel 31-S

The smaller “Type B” armor stone was applied atop the first 20-30 feet of geotextile panel, over the high subgrade area.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 11-Apr-2014	Report #: lpr_rm_10.9_Apr-11
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Mostly Cloudy	Clear
Temperature	57 °F	76 °F
Wind Direction	Calm	15.0 mph S

Description of work performed by contr. this report period:

- 0600-0720: GLDD installed geotextile panel 30-S.
 - Type B armor stone was applied over the first 20-30 feet of panel, starting at the shore, to cover the high-subgrade areas.
 - The fabric shroud assembly was effective at keeping the fabric flat during installation, and moreover the process appears easier and more efficient with each panel. According to one of the GLDD personnel, they hope to soon be installing more than one panel each day.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 0640: Stan asked if I knew of any talk regarding dredging/capping in the No Dredge Zone.
 - He mentioned having heard that EPA might be interested in addressing this section of RM 10.9; I said that I heard, months ago, about perhaps having a geophysical survey performed in the area to determine the locations of the two 72" water mains, but nothing more.
 - He emphasized that the No Dredge Zone would be outside of CPG's current scope.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys



are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 11-April-2014

Representative's signature:



Panel 30-S Installation

Geotextile fabric panel 30-S was installed at high tide in the morning. Type B armor stone was used in the high-subgrade areas.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 12-Apr-2014	Report #: lpr_rm_10.9_Apr-12
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	53 °F	73 °F
Wind Direction	4.6 mph NNW	5.8 mph Variable

Description of work performed by contr. this report period:

- 0645-0800: GLDD installed geotextile panel 29-S.
 - Sufficient overlap was observed with panel 30-S.
 - The fabric shroud assembly was effective at keeping the fabric flat during installation.
- 0830-0945: GLDD installed geotextile panel 28-S.
 - Additional space is left unarmored because GLDD will be angling the next panel in accordance with the shape of the river, therefore there will be more overlap between panels 28-S and 27-S.
 - GLDD ran out of armor stone on the rock barge just as they completed installation of panel 28-S.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.



Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 12-April-2014

Representative's signature:



Saturday, April 12th, Panel Installation

GLDD successfully installed two geotextile panels. Each required approximately one hour and twenty minutes.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 13-Apr-2014	Report #: lpr_rm_10.9_Apr-13
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	58 °F	70 °F
Wind Direction	6.0 SSE	3.0 mph SSE

Description of work performed by contr. this report period:

- 0645 - 0800: GLDD installed geotextile panel 27-S.
 - 4 to 5 ft. of overlap is observed during panel placement.
 - Panel length is approximately 120 ft. in length.
- 0825 - 0935: GLDD installed geotextile panel 26-S.
 - 8 to 10 ft. of overlap is observed during panel placement. Additional overlap in this area is necessary because panel 26-S is one of the panels wrapping around the river bend.
 - Panel length is approximately 100 ft. in length.
- 0935 – End of day: GLDD will move some of the anchors used for the barges.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.



Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Meredith Passaro	CDM Smith

Site Representative: Meredith Passaro

Date: 13-April-2014

Representative's signature:



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 14-Apr-2014	Report #: lpr_rm_10.9_Apr-14
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	66 °F	78 °F
Wind Direction	10.4 mph S	17.3 mph S

Description of work performed by contr. this report period:

- 0715-0815: GLDD installed geotextile panel 25-S.
 - Sufficient overlap was observed with panel 26-S.
 - The fabric shroud assembly was effective at keeping the fabric flat during installation.
- 0900-1000: GLDD installed geotextile panel 24-S.
 - Some minor tree trimming was required using the Fuchs excavator near the shore.
 - GLDD placed a rod on the geotextile fabric prior to armor stone placement and collected its elevation with a GPS unit so that they can return later and measure settlement.
- 1045-1330: GLDD installed geotextile panel 23-S.
 - GLDD exhausted their daily prepared supply of armor stone just prior to completing panel 23-S; they spent over an hour reloading the rock barge then finished the panel.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy



1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 14-April-2014

Representative's signature:



Geotextile Panel 25-S Installation

GLDD successfully installed three geotextile panels in the morning. Over two feet of overlap were observed between adjacent panels.



Armor Stone at Low Tide

The armor stone atop the recently-placed geotextile panels was visible as the tide went out in the early afternoon. The farthest away stone (note that it is “Type B” stone) is immediately south of the No Dredge Zone. There are visible low spots that will need to be revisited.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 15-Apr-2014	Report #: lpr_rm_10.9_Apr-15
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Haze	Mostly Cloudy
Temperature	64 °F	64 °F
Wind Direction	13.8 mph S	5.8 mph S

Description of work performed by contr. this report period:

- 0910-1010: GLDD installed geotextile panel 22-S.
 - Sufficient overlap was observed with panel 23-S.
 - Visible turbidity was generated during armor stone placement, however it dissipated no more than 200 feet from the placement area, and moreover there were no elevated turbidity readings during the work period today.
- 1050-1155: GLDD installed geotextile panel 21-S.
 - Once finished with panel 21-S, GLDD spent the early afternoon repairing one of the winches on the main barge and loading armor stone onto the rock barge.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.



Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 15-April-2014

Representative's signature:



Geotextile Panel 21-S Installation

GLDD successfully installed two geotextile panels despite rainy weather throughout the morning.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 16-Apr-2014	Report #: lpr_rm_10.9_Apr-16
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	34 °F	48 °F
Wind Direction	16.1 mph NNW	11.5 mph NNW

Description of work performed by contr. this report period:

- 0945-1045: GLDD installed geotextile panel 20-S.
 - Type B armor stone was used in the high-subgrade area near shore.
- 1135-1235: GLDD installed geotextile panel 19-S.
 - GLDD were delayed starting this panel because they had to remove a rock that was jammed in the fabric chute.
- 1305-1410: GLDD installed geotextile panel 18-S.
 - The tide had gone out by 1300, and GLDD were only just able to begin this panel; they had to pull approximately 40 feet of fabric out to cover the distance from the barge to the shore. Typically they pull out an initial 20 feet.
 - Once finished with panel 18-S, GLDD moved barges in preparation for tomorrow's activities.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy



1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 16-April-2014

Representative's signature:



Geotextile Panel 19-S and 18-S Overlap

GLDD installed 18-S at lower tide than usual, and consequently the overlap between adjacent panels was relatively visible. Approximately three feet of overlap were observed near the shore.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 17-Apr-2014	Report #: lpr_rm_10.9_Apr-17
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Partly Cloudy
Temperature	38 °F	49 °F
Wind Direction	8.1 mph NE	8.1 mph ESE

Description of work performed by contr. this report period:

- 0920-1015: GLDD installed geotextile panel 17-S.
 - Sufficient overlap was observed with panel 18-S.
 - Upon completion of panel 17-S, GLDD spent an hour loading additional rock and moving the southern winch anchor.
- 1115-1215: GLDD installed geotextile panel 16-S.
 - Type B armor stone was placed over a large portion of this panel. This was also true for panels 15-S and 14-S, both of which are located in "high-subgrade" areas.
- 1240-1320: GLDD installed geotextile panel 15-S.
 - GLDD continue to maintain approximately 3 feet of overlap between adjacent panels.
- 1400-1445: GLDD installed geotextile panel 14-S.
 - Once finished with panel 14-S, GLDD moved barges in preparation for tomorrow's activities.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 0940: Per S. Kaczmarek, GLDD will collect active layer cores in the area of not-yet-installed panels 37-N, 38-N and 39-N tomorrow morning at 0900. CDM will observe from the CH2M Hill boat.

**Sampling and Analyses:**

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 17-April-2014

Representative's signature:



Feeding Geotextile Panel through Fabric Shroud

GLDD begin each panel by tying rope to the edge of the panel and lowering the rope down through the fabric shroud. They recover the ends of the rope (as shown above) and pull them under the rolling bar. The geotextile panel itself follows, and the ropes are tied off on trees along the shore.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 18-Apr-2014	Report #: lpr_rm_10.9_Apr-18
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	38 °F	49 °F
Wind Direction	3.5 mph NE	5.8 mph ESE

Description of work performed by contr. this report period:

- 0915-0945: GLDD attempted to collect active layer cores from the 37-N/38-N/39-N area near the northern edge of the capping area. This is the location where there was a slope failure during the installation of panel 39-N on February 27th, which prompted GLDD to skip adjacent panels 38-N and 37-N.
 - They collected a core from the 38-N area; approximately 11 inches of sand/AquaGate were observed.
 - GLDD were unsuccessful on several subsequent coring attempts, and by 0945 the tide was too high to continue the activity (i.e., the water level had risen above the height of the coring tube).
 - They will complete this activity at low tide on Monday morning, between 0800 and 0900.
- 0950-1030: GLDD installed geotextile panel 13-S.
 - Type B armor stone was placed over the high-subgrade areas.
 - This panel was less than 100 feet long.
- 1055-1130: GLDD installed geotextile panel 12-S.
 - Once finished with 12-S, GLDD performed some minor maintenance work on the barge before breaking for the weekend.



Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 0840: Had a conversation with John Rolfe about the placement of the habitat layer once geotextile panel installation is complete:
 - He said that the telebelt (the device used to apply sand/AquaGate earlier in the project) will be used to apply the habitat layer.
 - He does not anticipate any delays in implementing the telebelt; he said the limiting factor would more likely be the timely submission of armor stone survey results by GLDD and their subsequent approval by EPA, both of which will be required before they can begin placing the habitat layer.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Mike Hoppe	USEPA
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 18-April-2014

Representative's signature:



Active Layer Core Collected from 38-N

GLDD collected a sediment core from the 38-N area. The core contained approximately 11 inches of sand/AquaGate. After unsuccessful attempts to core in the 37-N area, the water level became too high to make any more attempts. They will core in the 37-N and 39-N areas on Monday morning.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 21-Apr-2014	Report #: lpr_rm_10.9_Apr-21
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	46 °F	67 °F
Wind Direction	3.5 mph N	10.4 mph SSE

Description of work performed by contr. this report period:

- 0830-0900: GLDD collected active layer cores from the 37-N and 39-N areas near the northern edge of the capping area. This is the location where there was a slope failure during the installation of panel 39-N on February 27th, which prompted GLDD to skip adjacent panels 38-N and 37-N. They already collected a core from the 38-N area, on Friday, April 18th.
 - Approximately 9 and 10 inches of sand/AquaGate were observed in the cores collected from 37-N and 39-N, respectively.
- 1230-1325: GLDD installed geotextile panel 11-S.
 - Type B armor stone was placed over the high-subgrade areas; the same was true for panels 10-S and 9-S.
 - There was a new excavator operator on-site today.
- 1425-1515: GLDD installed geotextile panel 10-S.
 - Some visible turbidity was generated during armor stone placement, however there were no exceedances at the water quality monitoring buoys.
- 1600-1700: GLDD installed geotextile panel 9-S.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:



- 0910: Confirmed with John Rolfe that the telebelt will be used for placement of the habitat layer:
 - He said that GLDD own the telebelt and that it is available at their yard in Staten Island.
 - CH2M Hill have instructed GLDD to begin preparing the telebelt for implementation (i.e., mounting it on a barge).
 - In addition to the telebelt, the rest of the system will also be the same as during active layer placement (hopper, conveyer, CAT excavator to load sand).
- 1435: John Rolfe explained that GLDD are discussing using a track-mounted mini-excavator to level out the armor stone:
 - They have not yet sought approval from CH2M Hill.
 - They would actually drive out onto the geotextile at low tide and push armor stone from high areas to low areas.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith



Site Representative: Benjamin Hammond

Date: 21-April-2014

Representative's signature:



Active Layer Core Collected from 37-N

GLDD collected a sediment core from the 37-N area. The core contained approximately 9 inches of sand/AquaGate.



Core Collected from 39-N

GLDD collected a sediment core from the 39-N area. The core contained approximately 10 inches of sand/AquaGate.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 22-Apr-2014	Report #: lpr_rm_10.9_Apr-22
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Light Rain
Temperature	53 °F	73 °F
Wind Direction	8.1 mph SSW	6.9 mph SE

Description of work performed by contr. this report period:

- 1235-1320: GLDD installed geotextile panel 8-S.
 - Approximately 5 feet of overlap were observed with adjacent panel 9-S.
 - Type B armor stone was placed over the high-subgrade areas; the same was true for panels 7-S and 6-S.
- 1400-1445: GLDD installed geotextile panel 7-S.
- 1540-1625: GLDD installed geotextile panel 6-S.
 - Some visible turbidity was generated during armor stone placement, however there were no exceedances at the water quality monitoring buoys.
 - GLDD placed a sediment plate and took an elevation measurement, so that they can go back later to check for settlement.
- 1700-1750: GLDD installed geotextile panel 5-S.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1315: Stan Kaczmarek confirmed that GLDD will be using a track-mounted mini-excavator to level out the armor stone south of the No Dredge Zone:
 - They will drive out onto the geotextile at low tide and push armor stone from high areas to low



areas. They will probably only be able to cover the first 10 yards, measured from the shore, of each panel.

- This may begin as early as 0800 tomorrow (Wednesday, April 23rd) morning.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 22-April-2014

Representative's signature:



Installation of Panel 8-S

GLDD installed four geotextile panels in the afternoon. Sufficient overlap was observed between adjacent panels.



Track-Mounted Mini Excavator

Shown above is the machine that GLDD will drive onto the geotextile fabric south of the No Dredge Zone to even out high spots prior to the armor stone thickness survey. This activity will commence in the morning on April 23rd at low tide.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 23-Apr-2014	Report #: lpr_rm_10.9_Apr-23
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Overcast	Widespread Dust
Temperature	52 °F	61 °F
Wind Direction	11.5 mph NW	19.6 mph NW

Description of work performed by contr. this report period:

- 1040-1150: GLDD used the CAT 402E mini excavator to level out armor stone at high tide.
 - The operator drove the excavator onto the armor stone and knocked down high spots while attempting to fill in low spots; the activity had a positive effect in smoothing out the armor stone surface.
 - No evidence of damage to the active layer or to the geotextile fabric was observed.
- 1400-1445: GLDD installed geotextile panel 4-S.
 - Some visible turbidity was generated during armor stone placement, however there were no exceedances at the water quality monitoring buoys.
- 1545-1630: GLDD installed geotextile panel 3-S.
- 1700-1820: GLDD installed geotextile panel 2-S.
 - GLDD were delayed when it was discovered that their southwest anchor had been pulled up. They had to reset the anchor before resuming.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1300: The weekly progress conference call was held at the CPG facility in Rutherford. Items of note included the following:



- Geotextile panel installation is 81% complete by total area as of April 20th.
- In response to concerns that the mini excavator could cause settling of the active layer, de maximis and GLDD responded that the pressure would be similar to that of the water at high tide.
- Habitat layer placement will begin early next week. The sand layer is intended to fill in voids in the armor stone but will not provide significant additional depth to the cap.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Stan Kaczmarek	de maximis
Rachael	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 23-April-2014

Representative's signature:



Exposed Armor Stone at Low Tide

The mini excavator is shown leveling out armor stone north of the No Dredge Zone. Type B stone, immediately south of the No Dredge Zone, is shown in the foreground of the photograph.



Track-Mounted Mini Excavator

The CAT 402E mini excavator is shown moving armor stone from high points to low points.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 24-Apr-2014	Report #: lpr_rm_10.9_Apr-24
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	61 °F	64 °F
Wind Direction	16.1 mph NNW	15 mph WNW

Description of work performed by contr. this report period:

- 0930-1440: GLDD used the CAT 402E mini excavator to level out armor stone at high tide.
 - The operator drove the excavator onto the armor stone and knocked down high spots while attempting to fill in low spots; the activity had a positive effect in smoothing out the armor stone surface.
 - No evidence of damage to the active layer or to the geotextile fabric was observed. Work was performed both north and south of the No Dredge Zone.
- 1430-1530: GLDD installed geotextile panel 1-S.
 - This was the southernmost panel in the capping area, therefore the whole width of the panel was armored with stone.
 - The southern edge of the panel was tapered to fit the boundary of the capping area.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys



are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 24-April-2014

Representative's signature:



Geotextile Panel 1-S Installation

The southernmost panel in the capping area was installed at high tide. Sufficient overlap was observed with adjacent panel 2-S.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 25-Apr-2014	Report #: lpr_rm_10.9_Apr-25
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	50 °F	62 °F
Wind Direction	Calm	12.7 mph SE

Description of work performed by contr. this report period:

- 1045-1300: GLDD used the CAT 402E mini excavator to continue leveling out armor stone at low tide.
 - The activity had a positive effect in smoothing out the armor stone surface.
 - No evidence of damage to the active layer or to the geotextile fabric was observed. Work was performed both north and south of the No Dredge Zone.
- 1100-1200: GLDD added more sand/AquaGate mixture to the 39-N area.
 - The additional active layer was placed using the Fuchs excavator.
 - Once the activity was completed, GLDD collected a core from the placement area. The core contained 11.5 inches of active layer.
- 1330-1405: GLDD installed geotextile panel 39-N.
 - The panel was installed in accordance with the approved plan for installation of panel 39-N.
 - GLDD determined at 1430 that tidal conditions would prevent them from completing the installation of panels 38-N and 37-N; these panels will be installed tomorrow (Saturday, April 26) in the morning.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

**Sampling and Analyses:**

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 25-April-2014

Representative's signature:



Geotextile Panel 39-N Installation

GLDD successfully installed panel 39-N, which was the location of the slope failure in February. They placed additional sand/AquaGate prior to the fabric installation.



Armor Stone Leveling

GLDD continued leveling the armor stone near the shore. Part of the reason for this activity is that, with the armor stone placed, it will be difficult to get the barge close to shore to fill in low spots.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 26-Apr-2014	Report #: lpr_rm_10.9_Apr-26
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Overcast	Overcast
Temperature	48 °F	66 °F
Wind Direction	3.5 mph N	5.8 mph variable

Description of work performed by contr. this report period:

- 1130-1445: GLDD used the CAT 402E mini excavator to continue leveling out armor stone at low tide.
 - The activity had a positive effect in smoothing out the armor stone surface.
 - No evidence of damage to the active layer or to the geotextile fabric was observed.
 - This activity is now complete.
- 1315-1340: GLDD installed geotextile panel 38-N
 - There was a misunderstanding regarding the start time for panel placement; de maximis believed that panel placement would take place at high tide (0800), however it was stated later by CH2M Hill that GLDD always planned to perform this task at low tide (around 1400).
- 1420-1445: GLDD installed geotextile panel 37-N.
 - Panel 37-N was installed with approximately 3 feet of overlap over 38-N and approximately 20 inches of overlap over panel 36-N. Armor stone was not placed on the overlap with 36-N.
 - All geotextile panels in the capping area have now been installed.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- None

**Sampling and Analyses:**

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Rachel Maddaluna	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 26-April-2014

Representative's signature:



Geotextile Panel 37-N Installation

GLDD installed panel 37-N, the final panel in the capping area, between existing panels 36-N and 38-N.



Geotextile Panel 37-N Installation

GLDD measured 20 inches of overlap with adjacent panel 36-N. Armor stone was not placed on the overlapping segment. In the photograph above, a white sand bag is placed to show where the operator should not place armor stone.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 27-Apr-2014	Report #: lpr_rm_10.9_Apr-27
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Cloudy
Temperature	53 °F	60 °F
Wind Direction	10 mph SSW	10 mph SE

Description of work performed by contr. this report period:

- 1135: Grace onsite and met with Stan Kaczmarek
- 1200: GLDD positioned the barge to the north of the No-Dredge Zone, filled the low area with armor stone.
 - Some visible turbidity was generated during armor stone placement; however the visible extent of the turbid water was localized in the vicinity where the stones were dropped.
- 1335: Stan Kaczmarek told Grace that GLDD will not be able to finish filling/leveling the armor stone north of the No-Dredge Zone. Grace left the site. Stan Kaczmarek remained onsite.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 11:35-1335: Stan Kaczmarek informed Grace that:
 - GLDD is disassembling the equipment on the Poseidon barge for demobilization.
 - The Lyndhurst Fire Department expressed concern that the sediment at their boat ramp is soft making it difficult to launch boats. Stan Kaczmarek has asked GLDD to place a thin layer of Type B stone at the boat ramp to provide solid landing.
 - Stan Kaczmarek and Grace walked along the shoreline to inspect the placed geotextile under low tide. Stan stated that he has informed CH2M Hill/GLDD to cover the exposed edge of the geotextile with Type B stone or cut the unnecessary geotextile to provide natural look for the edge of the cover



- CH2M Hill was conducting a survey of the armor stone cover. Stan told Grace that because GLDD will not be able to fill and level all the area north of No Dredge Zone, it is unlikely that he will get the survey map today.
- Sharon Budney stopped by and gave the key of the field facility to Stan Kaczmarek.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Stan Kaczmarek	de maximis
Grace Chen	CDM Smith
Sharon Budney	CDM Smith

Site Representative: Grace Chen

Date: 27-April-2014

Representative's signature:



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 28-Apr-2014	Report #: lpr_rm_10.9_Apr-28
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	50 °F	65 °F
Wind Direction	5.8 mph NNW	4.6 mph variable

Description of work performed by contr. this report period:

- 1235-1630: GLDD used the Fuchs excavator bucket to apply armor stone to low spots north of the No Dredge Zone.
 - They were delayed in the morning because the alternator belt on the excavator needed to be repaired.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- None

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.



Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 28-April-2014

Representative's signature:



Telebelt at RM 10.9

The telebelt, which will be used for placement of the habitat layer, was observed at the southern edge of the capping area.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 29-Apr-2014	Report #: lpr_rm_10.9_Apr-29
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Overcast	Light Rain
Temperature	50 °F	48 °F
Wind Direction	9.2 mph E	5.8 mph E

Description of work performed by contr. this report period:

- 0800-1530: GLDD used the Fuchs excavator bucket to apply armor stone to low spots north of the No Dredge Zone.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1030: Spoke with John Rolfe about the outlook for finishing armor stone placement, having the survey approved, and beginning the habitat layer placement:
 - He mentioned that they hope to have the completed survey for the area north of the No Dredge Zone either Tuesday or Wednesday, and that the initial placement of sand could take place on Thursday.
 - He said that these plans could be affected by the weather; it would be difficult to place sand in the rain.
 - He said that the Fuchs excavator is required for both habitat layer placement (to load sand into the hopper) and the armor stone placement, therefore these activities cannot be performed simultaneously (i.e., they will not be able to place habitat layer north of the No Dredge Zone while filling low spots with armor stone south of the No Dredge Zone).

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.



- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Stan Kaczmarek	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 29-April-2014

Representative's signature:



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 30-Apr-2014	Report #: lpr_rm_10.9_Apr-30
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Light Rain	Rain
Temperature	45 °F	46 °F
Wind Direction	8.1 mph ENE	15.0 mph E

Description of work performed by contr. this report period:

- 0800-1600: GLDD used the Fuchs excavator bucket to apply armor stone to low spots south of the No Dredge Zone.
 - The survey of armor stone thickness was completed north of the No Dredge Zone, and will be completed south of the No Dredge Zone tomorrow.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1100: Spoke with John Rolfe and Stan Kaczmarek at the CPG facility. They reported that they are hoping to receive the Area 1 (north of No Dredge Zone) survey by the end of the day, at which point it will be forwarded to EPA and CDM Smith. They hope to begin habitat layer placement tomorrow afternoon, though Friday may be more realistic.
- 1300: The weekly progress conference call was held at the CPG facility in Rutherford. Items of note included the following:
 - It was reported yesterday that the Jackson Street Bridge is inoperable.
 - The habitat layer will be started once the Area 1 survey is completed and approved by EPA.
- 1745: Received word from John Rolfe that the survey is complete north of the No Dredge Zone and will be complete south of the No Dredge Zone tomorrow.

**Sampling and Analyses:**

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Stan Kaczmarek	de maximis
Rachel Maddaluna	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 30-April-2014

Representative's signature:



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 1-May-2014	Report #: lpr_rm_10.9_May-01
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Light Rain	Clear
Temperature	57 °F	79 °F
Wind Direction	3.5 mph NW	9.2 mph WSW

Description of work performed by contr. this report period:

- 0800-1100: GLDD used the Fuchs excavator bucket to apply armor stone to low spots south of the No Dredge Zone.
 - They also returned to some areas north of the No Dredge Zone to knock down high spots that were identified in the survey.
- 1200-1530: GLDD spent the afternoon moving equipment and completing the survey south of the No Dredge Zone.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1100: Per Rachel Maddaluna, GLDD are done adding armor stone to low spots south of the No Dredge Zone, pending the results of the survey.
- 1530: R. Maddaluna indicated that de maximis have not yet seen any final surveys; surveys will be passed on to EPA/CDM once they are received.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.



- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Rachel Maddaluna	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 1-May-2014

Representative's signature:



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 2-May-2014	Report #: lpr_rm_10.9_May-02
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Overcast	Overcast
Temperature	59 °F	69 °F
Wind Direction	Calm	13.8 mph WSW

Description of work performed by contr. this report period:

- 0800-1500: GLDD used the Fuchs excavator bucket to apply armor stone to low spots north of the No Dredge Zone.
 - They also resurveyed areas north and south of the No Dredge Zone.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A



Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 2-May-2014

Representative's signature:



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 3-May-2014	Report #: lpr_rm_10.9_May-03
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Overcast
Temperature	57 °F	69 °F
Wind Direction	Calm	9.2 mph S

Description of work performed by contr. this report period:

- 0800-1130: GLDD used the Fuchs excavator bucket to apply armor stone to low spots south of the No Dredge Zone.
 - They also resurveyed areas north and south of the No Dredge Zone.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 0830: John Rolfe provided some updates on the upcoming project schedule:
 - He expects that the final survey will be available for EPA/CDM on Monday.
 - He was told by Tim Briggs (GLDD) that the parts for the Jackson St. Bridge repair are coming in on Sunday or Monday, and that a week will be required to make the repairs.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.



Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 3-May-2014

Representative's signature:



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 8-May-2014	Report #: lpr_rm_10.9_May-08
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Light Rain	Overcast
Temperature	55 °F	58 °F
Wind Direction	Calm	3.5 mph E

Description of work performed by contr. this report period:

- 0930-1330: GLDD began placing the habitat layer at the southern edge of the RM 10.9 work area.
 - The telebelt was employed to deposit sand in radial passes, similar to the approach used during application of the active layer in Fall 2013.
 - Of the total area visited today, GLDD applied just one lift of sand over most of it. They applied a second lift of sand over a small area near the riverbank. CDM, GLDD, and CH2M Hill will visit the work area tomorrow at low tide, after 24 hours have elapsed, to observe the exposed habitat layer, to see the difference between one lift and two lifts of sand, and to determine, with input from EPA as needed, whether one or two lifts are required to sufficiently cover the armor stone.
 - If it is determined that two lifts are required, GLDD will revisit today's work area and apply a second lift before proceeding upriver.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 0945: John Rolfe reported that Essex County has remained generally uncooperative and unforthcoming with updates regarding the Jackson St. Bridge, which is currently inoperable.
 - He expects that there is only enough sand to continue habitat layer placement through Saturday.
 - Essex County will not consider manually opening the bridge.

Sampling and Analyses:



- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. The buoys did not report to the monitoring website today; this will be raised to de maximis and passed on to GLDD.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Rachel Maddaluna	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 8-May-2014

Representative's signature:



Habitat Layer after One Lift

The above photograph was taken after one pass of the telebelt. On the right there are two strips of sand sitting atop dry armor stone. On the left, the sand was placed in water (the tide subsequently went out) and settled more, which is why there is more visible armor stone.



Habitat Layer Application

Sand was applied in radial passes using the telebelt.



Habitat Layer after One Lift

The above photograph shows the southeast corner of the capping area after one pass of the telebelt. All visible areas will be examined tomorrow at low tide to assess whether one lift or two lifts of sand are required to sufficiently cover the armor stone.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 9-May-2014	Report #: lpr_rm_10.9_May-09
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Overcast	Overcast
Temperature	58 °F	63 °F
Wind Direction	5.8 mph NE	4.6 mph ESE

Description of work performed by contr. this report period:

- 0830-1620: GLDD continued placing the habitat layer at the southern edge of the RM 10.9 work area.
 - The telebelt was employed to deposit sand in radial passes.
 - At 1100 CDM Smith and de maximis observed the area covered yesterday, after it had been washed over once by the high tide. The test area that received two lifts of sand was deemed acceptable, in that there was a relatively even layer of sand with some armor stone showing through. There was, on the other hand, a significant amount of uncovered armor stone in the area that only received one lift, and this was deemed unacceptable. Based on these observations, EPA informed de maximis that two lifts of sand would be required for the whole capping area.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1630: John Rolfe received unexpected notification that the Jackson St. Bridge is now operable and will open early on Monday morning, thereby allowing work to continue.
 - It is unclear how Essex County fixed the bridge.
 - dmi drafted a force majeure letter today before finding out that the bridge would open.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.



- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 9-May-2014

Representative's signature:



Habitat Layer after Two Lifts

The above photograph shows the test area where two layers of sand were applied, after approximately 24 hours had elapsed. There is a relatively even surface, and the exposed armor stone is limited. Two lifts of sand will be applied over the entire capping area.



Habitat Layer after One Lift

In areas where only one layer of sand was applied, a significant amount of armor stone remained visible and there was not an even surface. It was determined that this would not provide a suitable habitat layer.



Habitat Layer Placement

GLDD applied sand throughout the day. Once the determination was made to provide two lifts of sand, it was implemented immediately; they covered today's work area twice.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 10-May-2014	Report #: lpr_rm_10.9_May-10
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Fog	Clear
Temperature	61 °F	77 °F
Wind Direction	4.6 mph S	12.7 mph S

Description of work performed by contr. this report period:

- 0800-1200: GLDD were unable to continue habitat layer placement because the Fuchs excavator needs to be repaired.
 - They were unable to find a mechanic to diagnose the problem today, and by 1200 it was determined that the repair would not take place until Monday at the earliest.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1000: John Rolfe provided an update on the barge movement schedule.
 - The first bridge opening, early Monday morning, will be used to move empty scows downriver. The second bridge opening, on Monday evening, will be used to move sand to RM 10.9.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

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Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 10-May-2014

Representative's signature:



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 12-May-2014	Report #: lpr_rm_10.9_May-12
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Overcast
Temperature	66 °F	84 °F
Wind Direction	Calm	9.2 mph SSE

Description of work performed by contr. this report period:

- 0800-1530: GLDD were unable to continue habitat layer placement because the Fuchs excavator needs to be repaired.
 - They spent most of the day trying unsuccessfully to diagnose the problem.
 - It was decided in the mid-afternoon that they would rent a replacement excavator, which will take a few days to arrive.
 - Work at RM 10.9 will resume on Thursday, May 15th.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 0930: John Rolfe provided an update regarding barge movement.
 - Jackson St. Bridge opened successfully this morning, allowing empty scows to move downriver. Full scows will return to RM 10.9 tonight.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.



Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 12-May-2014

Representative's signature:



Habitat Layer Three Days After Placement

The above photograph shows where two lifts of sand were applied on Friday, May 9th. There is a relatively even surface, and the exposed armor stone is limited. Two lifts of sand will be applied over the entire capping area.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 21-May-2014	Report #: lpr_rm_10.9_May-21
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Overcast	Overcast
Temperature	68 °F	77 °F
Wind Direction	3.5 mph N	8.1 mph SSW

Description of work performed by contr. this report period:

- 1140-1815: GLDD resumed placing the habitat layer south of the No Dredge Zone.
 - Work was delayed in the morning as the crew prepared the new excavator and replaced a missing O-ring.
 - Steady progress was made throughout the day with the exception of one pause from 1515-1555 during which GPS issues with the Telebelt were corrected.
 - GLDD completed the second pass of sand in areas south of the No Dredge Zone where the first pass was completed prior to the breakdown of the original excavator.
 - Approximately one full scow of sand was placed today. An additional two full scows of sand are currently on site for the remaining work.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1000-1045: Mike Hoppe was on site to inspect the completed habitat layer along the shoreline and gave verbal approval of the completed work.
- 1300-1330: Weekly status update call was held.
 - Safety moment: ladder safety
 - GLDD plans to complete habitat layer placement by this Saturday but will work Sunday if additional time is needed.
 - The new excavator bucket appears to be capable of meeting the expected sand placement rate of 1 barge per day.



- GLDD planned to complete a demonstration layer today to show that they could achieve acceptable coverage by placing a single pass of sand at a lower speed. However, this demonstration layer was not completed today.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Mike Hoppe	EPA
Katie Puckett	CDM Smith

Site Representative: Katie Puckett

Date: 21-May-2014

Representative's signature:



Onsite Set Up

11:13 – GLDD crew still preparing the new excavator and replacing a missing O-ring.



Unloading Sand

11:14 – GLDD unloading sand from the scow into the hopper.



Habitat Layer Placement

11:40 – Placement of habitat layer sand resumes south of the No Dredge Zone. This is the second pass in this area.



Telebelt Repairs

15:51 – Work stopped while GLDD crew addresses GPS issues with the Telebelt.



Habitat Layer Placement

17:31 – Placement of habitat layer sand continues south of the No Dredge Zone. This is the second pass in this area.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 22-May-2014	Report #: lpr_rm_10.9_May-22
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Light drizzle	Haze
Temperature	64 °F	67 °F
Wind Direction	6.9 mph ESE	10.4 mph SE

Description of work performed by contr. this report period:

- 0940-1820: GLDD continued placing the habitat layer south of the No Dredge Zone.
 - Progress was halted from 1000-1240 as the sand scows could not be moved during low tide. From 0940-1000, GLDD placed the sand that remained in the hopper from yesterday. At 1240, the empty scow was replaced with a full sand scow.
 - The excavator bucket was used to place water in the empty sand scow to wash out excess sand.
 - GLDD completed the second pass of sand in the area south of the No Dredge Zone where work stopped yesterday and the first pass of sand north of where work began yesterday (still south of the No Dredge Zone).
 - Due to delays at low tide, GLDD did not place a full scow of sand today. One full scow of sand remains on site for the remaining work in addition to the scow partially completed today.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1745: Rachel Maddaluna indicated that, per her conversation with Roy Weller, GLDD plans to begin work at 0600 tomorrow. Roy also verified that water was placed in the empty sand scow in order to rinse it out.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.



- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Rachel Maddaluna	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Katie Puckett	CDM Smith

Site Representative: Katie Puckett

Date: 22-May-2014

Representative's signature:



Cleaning Sand Scow

10:04 – Excavator bucket used to clean out the empty sand scow by placing water in it. Habitat layer placement was stopped during this time as the sand scows could not be moved at low tide.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 23-May-2014	Report #: lpr_rm_10.9_May-23
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: John Rolfe, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Mostly Cloudy	Rain, Thunderstorm
Temperature	63 °F	64 °F
Wind Direction	3.5 mph variable	calm

Description of work performed by contr. this report period:

- 0700-0840: GLDD fix the bucket of the excavator. Staging immediately south of the No Dredge Zone.
- 0840-0920: GLDD placed sand. The excavator picked out big rocks (the armor stone) from the scow. Work stopped, GLDD personnel went up the hopper to pick out armor stones dropped in the hopper by the excavator. Then Roy called John and said that they need to fix the excavator.
- 0920-1345: GLDD brought the hydraulic cylinder of the excavator back to the shop and fixed it.
- 1345-1415: GLDD put the hydraulic cylinder back to the excavator and tested it to be working.
- 1415-1740: GLDD resumed placing the habitat layer immediately south of the No Dredge Zone.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- None.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy.



Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe Roy Weller Grace Chen	de maximis CH2M Hill CDM Smith

Site Representative: Grace Chen

Date: 23-May-2014

Representative's signature:



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 24-May-2014	Report #: lpr_rm_10.9_May-24
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: John Rolfe, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Mostly Cloudy	Mostly Cloudy
Temperature	59 °F	68 °F
Wind Direction	9 mph NNE	7 mph Variable

Description of work performed by contr. this report period:

- 0730-0830: GLDD began placing the habitat layer at the southern portion of the RM 10.9 work area, immediately south of the No Dredge Zone.
 - The telebelt was employed to deposit sand in radial passes, similar to the approach used during application of the active layer in Fall 2013.
 - Two lifts of sand were placed until the excavator bucket cracked at 08:30.
- 0830-0930: No habitat layer placement occurred while GLDD repaired the cracked excavator bucket by welding.
- 0930-1200: GLDD resumed placing the habitat layer at the southern portion of the RM 10.9 work area, immediately south of the No Dredge Zone.
 - The telebelt was employed to deposit sand in radial passes.
 - Two lifts of sand were placed.
 - GLDD finished habitat layer placement in the area south of the No Dredge Zone at 12:00.
- 1300-1400: GLDD repositioned the sand scow, and telebelt/excavator barge north of the No Dredge Zone.
- 1430-1730: GLDD began placing the habitat layer at the northern portion of the RM 10.9 work area, immediately north of the No Dredge Zone.
 - The telebelt was employed to deposit sand in radial passes.
 - Two lifts of sand were placed.



Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 08305: John Rolfe reported that it is likely that no work will occur on Monday.
 - The last empty sand scow delivered to the sand loading marina has numerous holes, and in its current state cannot hold a full load of sand without listing or possibly sinking.
 - GLDD will have to repair the scow (by patch welding the holes) before it can be put back into service. There was no information on when GLDD intends to make the repairs.
 - GLDD currently has enough sand onsite to last through end of day Sunday, and it is not anticipated that another sand scow will be made available for Monday.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Amy Picunas	CDM Smith

Site Representative: Amy Picunas

Date: 24-May-2014

Representative's signature:



May 24, 2014 1018: GLDD performing habitat layer installation, immediately south of the No Dredge Zone.



May 24, 2014 1136: Habitat layer placed during low tide, immediately south of the No Dredge Zone (armor stone high spot in the background).



May 24, 2014 1407: GLDD placing habitat layer placed during low tide, immediately north of the No Dredge Zone.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 25-May-2014	Report #: lpr_rm_10.9_May-25
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: John Rolfe, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Clear	Clear
Temperature	61 °F	83 °F
Wind Direction	calm	6.9 mph N

Description of work performed by contr. this report period:

- 0730-1300: GLDD placing sand layer immediately north of the No Dredge Zone.
- 1200: A kayak approached the work zone. GLDD warned him and Roy approached him from his boat, asked him to pass on the other side of the working area. Roy led him through.
- 1300: GLDD repositioned the barges, using the GPS on the telebelt to position the barges. The tide was too low for the barge to get close to the shore for complete coverage along the shore. Roy called John and told him that they will come back to the area they cannot cover on Tuesday during high tide.
- 1324-1400: GLDD place the habitat layer – sand.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- John confirmed that GLDD will not work on Monday. A scow of sand will be brought up on Wednesday morning. Placing the habitat layer is planned to be completed on Wednesday.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy.



Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
John Rolfe Roy Weller Grace Chen	de maximis CH2M Hill CDM Smith

Site Representative: Grace Chen

Date: 25-May-2014

Representative's signature:



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 27-May-2014	Report #: lpr_rm_10.9_May-27
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Partly Cloudy	Partly Cloudy
Temperature	76 °F	88 °F
Wind Direction	Calm	12.7 mph WSW

Description of work performed by contr. this report period:

- 0830-1630: GLDD continued placement of the habitat layer north of the No Dredge Zone
 - After some intermittent pauses in the morning, progress was steady throughout the rest of the day and GLDD finished near the Fire Department boat launch area.
 - Visible turbidity plumes were generated during habitat layer placement, however trigger levels were not met at any of the monitoring buoys.
 - The Weeks 84 scow was emptied in the morning and the Stymie scow was nearly empty by day's end; a full scow will be transported to RM 10.9 tonight.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1630: Asked Rachel Maddaluna about the exposed armor stone near the shore at many locations.
 - She called John Rolfe, who confirmed that GLDD have no plans to cover this armor stone with sand. The exposed stone is outside of the dredging/capping area, and GLDD have only placed habitat layer to the "dredge line".

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy 1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys



are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Rachel Maddaluna	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 27-May-2014

Representative's signature:



Habitat Layer Placement and Previously-Covered Area

In the background of the above photograph, the telebelt is applying the first lift of sand to an area just south of the Fire Department boat launch. The foreground shows an area that was covered last week, including a strip of exposed armor stone outside the “dredge line”. Per John Rolfe, GLDD currently do not plan to cover these areas with sand.



Habitat Layer Placement – Second Lift

The telebelt is shown placing the second lift of sand over an area. The background, beyond the fresh sand, shows an area between first and second lifts.



North of No Dredge Zone, Facing South

Strip of armor stone (beyond the “dredge line”) at bottom-right of photograph and extending toward center of photograph.



North of No Dredge Zone, Facing North



Near Southern Edge of Capping Area, Facing North

Abundance of extra armor stone (beyond the “dredge line”) shown.



Near Southern Edge of Capping Area, Facing South



South of No Dredge Zone, Facing North



South of No Dredge Zone, Facing South



Initial Habitat Layer Placement – May 9th, 2014

The above photograph shows an area south of the No Dredge Zone during habitat layer placement earlier this month. See the following page for a photograph taken weeks later for comparison.



Habitat Layer – May 27th, 2014

This is the same location as on the previous page, after two lifts of sand were applied and over two weeks passed. The result is a generally uniform sand surface, with the exception of some residual armor stone outside the “dredge line”.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 28-May-2014	Report #: lpr_rm_10.9_May-28
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Haze	Overcast
Temperature	60 °F	62 °F
Wind Direction	8.1 mph NE	6.9 mph NE

Description of work performed by contr. this report period:

- 0830-1730: GLDD continued placement of the habitat layer north of the No Dredge Zone.
 - Progress was steady throughout the rest of the day and GLDD are expected to finish the habitat layer tomorrow (Thursday, May 29).
 - Visible turbidity plumes were generated during habitat layer placement, however trigger levels were not met at any of the monitoring buoys.
 - The Chubby scow was transported to RM 10.9 last night, and is expected to provide all the sand needed to finish the habitat layer.
 - GLDD were delayed in the afternoon when a spud cable broke; work paused from 1500 to 1630.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1300: The Weekly Progress Update Conference Call was held:
 - Mike Hoppe (EPA) will visit the site at low tide tomorrow to inspect the habitat layer and verify that it is sufficient.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy



1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Rachel Maddaluna	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Mike Hoppe	USEPA
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 28-May-2014

Representative's signature:



Habitat Layer Placement

GLDD placed sand north of the No Dredge Zone for approximately seven hours today.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 29-May-2014	Report #: lpr_rm_10.9_May-29
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	4:00 PM
Weather	Partly Cloudy	Mostly Cloudy
Temperature	55 °F	66 °F
Wind Direction	9.2 mph NE	6.9 mph S

Description of work performed by contr. this report period:

- 0730-1030: GLDD completed placement of the habitat layer.
 - They finished at the northern edge of the capping area.
- 1105-1130: GLDD used the extra sand in the Chubby scow to cover the exposed stone at the Fire Department boat launch.
- 1200-1500: GLDD performed various closeout tasks:
 - Grass seed was applied as needed at various locations in the park.
 - Pieces of rope, previously used to anchor the fabric panels at trees, were removed.
 - Exposed lengths of fabric were either cut or anchored with rocks to prevent flapping.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

- 1530-1630: Mike Hoppe (EPA) visited to site to perform a final inspection at low tide:
 - The habitat layer was deemed satisfactory and M. Hoppe gave permission to demobilize.

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 are set up to collect turbidity readings continuously. Buoy



1 is the southernmost buoy and Buoy 4 is the northernmost buoy. Buoy 5 is the mobile buoy. All buoys are reporting turbidity and pH to the monitoring website.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A

Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Rachel Maddaluna	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Mike Hoppe	USEPA
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 29-May-2014

Representative's signature:



Habitat Layer Placement

GLDD completed placement of the habitat layer today, finishing at the northern edge of the capping area.



Extra Sand Placement

GLDD used the extra sand leftover in the Chubby scow at the Fire Department boat launch.



Grass Seed

GLDD raked and applied grass seed to park areas that were damaged during capping operations.



United States Environmental Protection Agency

DAILY INSPECTION REPORT

Site Code #:	Date: 30-May-2014	Report #: lpr_rm_10.9_May-30
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Site Name: Lower Passaic River, River Mile 10.9

Location: Lyndhurst, New Jersey

CPG Project Manager: Stan Kaczmarek, de maximis

EPA RPM: Stephanie Vaughn and Jennifer LaPoma

Dredge Contractor: GLDD

Site Phone & Fax:

Newark Airport	8:00 AM	2:00 PM
Weather	Mostly Cloudy	Mostly Cloudy
Temperature	61 °F	75 °F
Wind Direction	Calm	Calm

Description of work performed by contr. this report period:

- 0730-1000: GLDD performed various demobilization tasks.
 - The turbidity monitoring buoys were removed and the crew performed some maintenance work on the main excavator barge.
 - The telebelt was moved downriver last night. The empty Chubby scow and the main excavator barge will leave RM 10.9 tonight. This will be the last demobilization activity.

Meetings/Discussions/Comments regarding visitors, contractor and/or engineer:

Sampling and Analyses:

- Riverside County Park: Real-time monitoring of particulates is suspended, as approved by EPA.
- In-River Turbidity Monitoring: Buoys 1 – 5 were removed from the river as part of demobilization.

Deviation from Monitoring Plan/Design	Description & Reason
None	N/A



Health & Safety:

Level of protection: Normal.

Is the level of protection in conformance with the approved Health & Safety Plan? Yes.

List deviations: None

Are atmospheric monitoring results acceptable? Yes.

Site Visitors	Representing
Rachel Maddaluna	de maximis
Mike Holsinger	CH2M Hill
Roy Weller	CH2M Hill
Joe (QA)	CH2M Hill
Benjamin Hammond	CDM Smith

Site Representative: Benjamin Hammond

Date: 30-May-2014

Representative's signature:

Attachment 2
Field Logbook Notes

Location _____

Date

5/29/13

Project / Client

LPR

10.9 Dredging unofficial survey

PRE: Modified Level D

Weather: 75°F

Personnel: JR (Carm-smith)

1255 JR arrives onsite and meets with Stan K. Stan lets JR know that this is not an official survey. This survey will be used for design purposes only.

1305 Today's goal is to identify cable and water lines. CH2M Hill wants to confirm that the pipelines

1315 Sonar and Magnetometer are being used by OSI. Jersey City owns the easement to the two water lines. Organic material is effecting the quality of the

1335 JR departs site

1630 SK updates JR that OSI was successful in locating pipelines
J.R. 5/29/13

Location _____

Date

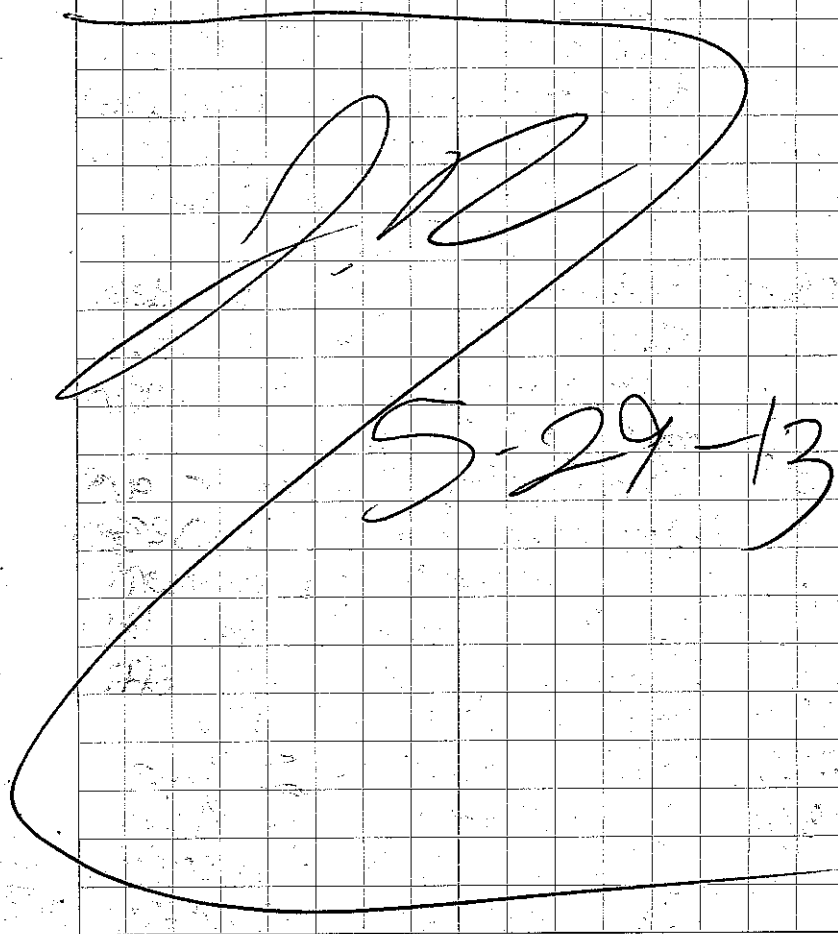
5/29/13⁷

Project / Client

LPR

10.9 Dredging unofficial survey

horizontally with magnetometer, organic material affected the usefulness of the Sonar.



Location

LPR

Date

6-24-13

Project / Client

USACE

WQMP

J. Robinson

PPE: Modified level D

weather: 75°F

personnel: JR (com Smith), OST,

CH2MHill

Objective: Collection of water quality monitoring buoys station 5.

0750 JR arrives on site

0810 CH2MHill loads boats

0820 Shave off from CRG boat ramp to monitor High Slack

* Note - Buoys 1-4 numbering starts down to up stream.

0843 Arrive at Buoy #1 AM 10.2

* Note locations 1-4 in draft work plan were changed

0845 OST personnel are currently trouble-shooting GPS connectivity issues.

0923 Lower YSI bottom depth 19.7'

0929 Mid Depth - East 10.2 sample time

9.85' GSW - ~~IAE~~ - IBE

Turbidity 5.0 NTU - sample collected for POC, DOC, TSS

0936 Top depth - East 2.2 sample collected

Location

LPR

Date

6-24-13

Project / Client

USACE

WQMP

J. Robinson

Turbidity 3.8, GSW - IAE - IBE 6-24-13

0943 Arrive at Middle location

18.7' dtb, 9.8' will be mid-depth

0953 GSW - 1 AM turbidity 5.0 NTU

* Note - River water purged through line for 2 minutes before sample collection

Turbidity top depth 3.8

0958 GSW - 1 AM top sample collected

1003 Arrive at West 10.2 location

1008 17.7' dtb, 9.85' mid depth, turbidity 4.8

1012 GSW - 1 BW - sample time

1017 Top depth turbidity 3.6

* CH2MHill is collecting real time pH, NTU, temperature, dissolved oxygen, salinity measurements for each transect sampling point

1020 GSW - 1 AW sample time

1023 transect #1 complete

dir 6-24-13

Location

LPR

Date

6-24-13

Project / Client

USACE

WQMP

J. Redburn

1025 KAO at + transect #2
located South of RM
10.

1030 Setup at transect #2
East location 8.9 DTB,
mid point 4.45

1042 start to purge out line
at transect #2 East
Mid Depth turbidity 8.7

* Note - a Carboy is being
filled up for all locations and
depths for transect

1044 GSW-2BE Sample time

1047 GSW-2AE NTU 7

1050 GSW-2AE Sample time

* Note - Samples are being
preserved with ike.

1100 14.8 dtb at transect #2
mid point, mid point depth
7.4 turbidity 8.8 NTU

1108 GSW-2BM Sample
time

1110 Top depth NTU 7.4

1115 Arrive at West location
J.R. 6-24-13

Location

LPR

Date

6-24-13

Project / Client

USACE

WQMP

J. Redburn

DTB 17.7, mid point 8.85

NTU 6.20

1124 GSW-2BW Sample time

Top depth NTU 4.8

1215 Arrive back at CPG

Pump and unload boat

1235 J.R. departs site

J.R.

6-24-13

LPR

6-25-13

USACE

WQMP

J. Rakowski

PPE: Modified Level D

Weather: 70° Fahrenheit, will reach 90's

Personnel: JR (CDM Smith), OSI,
6-25-13 ~~AECON~~ CH2MHillObjective: Perform WQMP on
ebb and flood tide

0540 JR arrives on site

0615 CH2MHill transfers equipment
to boat0630 depart CPG ramp to head
to Buoy #2 (transect #2) at
RM10. 29 226-25-130647 Arrive at transect #2
for flood tide sampling0657 4.7 dth, 2.35 mid depth,
9.4 turbidity for transect #2, east0700* GSW-2BE sample collected - The
west bottle was collected
by mistake, which JR pointed
out. CH2MHill corrected the
labels0705 transect #2 East surface depth,
NTU 7.80700 GSW-2AE sample time
8.2 6-25-13

LPR

6-25-13

USACE

WQMP

J. Rakowski

0715 Land on transect #2 central location
10.5 dth mid depth 5.25
Turbidity 8.2

0718 GSW-2BM sample time

0726 Central location, top depth
turbidity 9.2

0730 GSW-2AM sample time

0740 Arrive at transect #2 west
location

0745 Anchor is becoming dislodged

0810 Anchor in on transect #2 west
location; depth to bottom 14.4',
mid depth 7.2, NTU 11.1

0815 GSW-2BW sample time

0817 West location, top depth

NTU 10.60

0821 GSW-2AW sample time -
Transect #2 flood tide
Completed

0830 Arrive at transect #1

0835 17 dth, mid depth 8.5
at east point, NTU 19.5* Note transect locations 1, 2, 3
are East, Central, West respectively
6-25-13

LPR

6-25-13

USACE
WQMP J. Baker

0845 GSW-1BE Sample time 1 d.r. 6-25-13

0847 transect #2 E top depth; NTU 11.2

0852 GSW-1AE Sample time 1, 2 6-25-13

0900 Arrive at transect #2
Central location; mid d.f.b.
17.8; mid depth 8.9;
NTU 16

0909 GSW-1BM Sample time

0912 Tubing is pulled up to the surface for central top Sample; NTU 8.6

0915 GSW-1DAM Sample time

0918 Head toward West point of transect #1; 17.6 d.f.b. 8.3 mid point; NTU 10.7

0928 GSW-1BW Sample time

0933 Top depth West; NTU 6.9

1003 GSW-1AW Sample time

1005 Depart boat and head back to CPG facility
d.r. 6-25-13

LPR

6-25-13

USACE
WQMP J. Baker

1025 JR reviews QAPP addendum for upcoming high volume sampling on Thursday.

1200 Arrive at CPG boat ramp.

1220 depart boat ramp for transect #2

1235 Arrive at transect #2

*Note - transects 2, 3, 4 will be sampled during ebb tide. Transect #1 will not be sampled.

1240 Stationed on transect #2 East; Turbidity 10-17.5 d.r.

1243 GSW-2BE Sample time 6-25-13

1251 pump at top depth East; NTU 9.40

1256 GSW-2AE Sample time

1300 VST is not connecting

1315 VST problem fixed

1320 GSW-2BM turbidity 9.6

1322 GSW-2BM sample time

d.r. 6-25-13

6-25-13

LPR
USACE
WQMP J. Nakamura

1325 1ft pump to Surface
at central location

1330 GSW-2AM sample time

NTU 7.5

1344 transect #2, west, bottom
depth 12', mid depth 6'

1346 GSW-2BW sample time

NTU 6.6

1348 Pull pump up to 1' below
water surface; NTU

5.10

1354 GSW-2AW sample time

1405 Arrive at transect #3

East point 15.5 dftb;

Top depth NTU 7.1

1416 GSW-3BE sample time

1420 Pull up pump to top depth

1424 GSW-3AE sample time

NTU 7.2

1427 Arrive at transect #3
central point bottom depth;

NTU 7.7 BM for 6-25-13

1440 GSW-3BA sample time

1443 Pull up to top depth;
6-25-13

LPR 6-25-13¹⁷

USACE

WQMP J. Nakamura

NTU

1447 GSW-3AM sample time

1458 Arrive at transect #3;
west point; bottom depth

12.80' 6.40 mid depth

1504 GSW-3BW sample time;

NTU 9.1

1507 Pull up pump line

1511 GSW-3AW sample time

155 Great Lakes employees tell
CH2M Hill that NTU monitors

have large spikes and this
may be due to construction

under Route 3 bridge.

1520 approach Rt. 3 bridge,

The River is clearly more
turbid than usual around
this area.

1600 depart site

J. Nakamura

6-25-13

LPR

7/12/13

USACE

Bathymetry Survey

PPE: Modified Level D

Weather: 70°F, overcast

Personnel: Great Lakes, De Maximus

Crimmell, Jeff Rakowski

Objective: Bathymetry Survey

0855 JR arrives at CP6 facility

0905 The Survey is planned to go through Sunday.

There are 25 stations,

- mud flats

- calibration

0930 Sharon Budney requests the following questions; plan to access the mudflats; has calibrations been performed

0932 Job Safety Analysis meeting

0935 Great Lakes stated that some preliminary cals have been taken care of and the rest will be completed today.
J.R. 7-12-13

LPR

7/12/13

USACE

Bathymetry Survey

The mud flat data collection will be reviewed. If necessary areas can not be obtained by boat will be collected by land surveys.

0950 Boat Crew are currently viewing a safety video.

*Note John Rolfe told JR that Great Lakes will be ^{by 12/13} have electric outlets installed in park for air monitoring equipment.

1015 Great Lakes launches boat
1050 JR departs site

7-12-13

Location LPR-RM 10.9 Date 7/31/13
 Project / Client USACE-RM 10.9 Oversight
Amy Pinaas

1330: Onsite, Passaic RM 10.9 Field Office
 Received Site & Project Orientation.

Weather: Sun, 80°F

Personnel: GLDD, de maximis, CH2MHill,
 Amy Pinaas

1400: Onsite, Passaic RM 10.9 Riverside Park
 Site walk with J Kaczmarek, de maximis

Weather: Sun, 80°F

Personnel: J Rowitz de maximis
 J Kaczmarek de maximis
 J Wilkie CH2MHill
 James CH2MHill
 A Pinaas CDM Smith

various on dredge platform GLDD

- Northern air monitor operational
- Southern air monitor being installed
- GLDD deploying silt curtain

1500: Offsite for the day.

Amy Pinaas
7/31/13

Location LPR-RM 10.9 Date 8/1/13
 Project / Client USACE-RM 10.9 Oversight
Amy Pinaas

~~0700~~: Onsite at Clean Earth facility.

Site visit & meeting on sediment processing
 and dewatering activities

Weather: Sun 70°F

Personnel: Clean Earth, GLDD, de maximis,
 CH2MHill, USEPA, CDM Smith - full list
 of attendees in Daily Report.

0900: Depart Clean Earth Facility

0910: Onsite at Riverside Park for site
 visit

Personnel: de maximis, USEPA, CDM Smith
 - Northern & Southern air monitors
 operational.

- Middle air monitor (adjacent to pump house)
 being installed.

- GLDD deploying silt curtain

1400: Onsite, Riverside Park

- Northern air monitor ~~not~~ operational, 48hr
 sample collection complete.

- Southern & Mid air monitors operational

- Weather station installed.

1500: Offsite for the day.

Amy Pinaas
8/1/13

Location: LPR - RM 10.9 Date: 8/2/13Project / Client: USACE - RM 10.9 OversightAmy Prouas

0800: Onsite, Riverside Park

- Silt curtain fully deployed, not anchored yet.
- GLDD setting up GPS unit on excavator.

0930: Riverside Park

- Dump saw deployed to dredge barge.
- Silt curtain anchored, needs to be unfurled.
- Confirmation email from M Hoppe (EPA), 48-hr intensive TSS-turbidity correlation sampling is cancelled.

1300: Riverside Park

- GLDD anchoring silt curtain

1500: Offsite for day.

Amy Prouas
8/2/13Location: LPR - RM 10.9 Date: 8/3/13Project / Client: USACE - RM 10.9 OversightAmy Prouas

Page 1 of 6

PPE: Modified Level D

0700: Onsite, Field Office for 8-hr composite surface water sampling, for first ~~24~~⁴⁸ hr day of dredging0715: H₂S Briefing on water sampling safetyPersonnel: Andy, James & Jen ~~CH2M Hill~~
Amy CDM Smith

Weather: Light rain & overcast, 70°F

0900: Composite sampling start. Embark on OSI Boat.

Weather: Overcast, light rain, 75°F

Personnel: Jen Wilkie CH2M Hill
Steve OSI
Jeff OSI
Amy Prouas CDM Smith

0930: OSI / CH2M Hill moving river air unit approx 100ft south due to navigability concerns. Informed Slaughter & M Hoppe of change, they concur.

0945: First bucket collected

1007: Tot Depth 17.2 ft

YSI positioned at mid-depth 8.6 ft

Buoy #1 - ~~off~~

Location LPR-RM 10.9 Date 8/3/13Project / Client USACE-RM 10.9 OversightAmey P. ThomasPage 2 of 6

1012: Buoy #1 Start Purge

1014 Buoy #1 Stop Purge & Sample, 4L

1015: pH 7.35 SU

Temp 23.38 °C

Turb 15.5 NTU

DO 7.34 mg/L

Sal 0.19

1020: At Buoy #2 for sampling

- Dredge cycle times ~45-60 sec

- Very clean cuts, not much debris release/
decant occurring.

YSI at Mid-Depth 5.8 ft

Total Depth 11.2 ft

1031 Start Purge Buoy #2

1039 Start Sample Buoy #2, 4L

pH 7.47 SU

Temp 23.80 °C

Turb 28.3 NTU

DO 8.09 mg/L

Sal 0.19

1053 At Buoy #3 sampling

YSI at Mid-Depth 7.6 ft

1056 Start Purge

1058 Stop Purge & Sample Buoy #3, 4L

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pH 7.48

DO 7.96

Temp 23.67

Sal 0.19

Turb 6.5

1115: At Buoy #4 for sampling

1115: Purge start

YSI at Mid-Depth 7.25 ft

1117: Start Sample at Buoy #4, 4L

pH 7.4

Temp 23.33

DO 7.44

Turb 5.3

Sal 0.2

1212: Buoy #1 - Round 2

YSI at Mid-Depth 8.15 ft

1214 Purge start

1216: Start sample Buoy #1 - Round 2, 4L

pH 7.51

DO 8.09

Temp 23.78

Sal 0.19

Turb 8.3

1224: Buoy #2 - Round 2

YSI at Mid-Depth 5.4 ft

1230: Purge start

1232: Start sample Buoy #2 - Round 2, 4L

pH 7.46

DO 7.81

Temp 23.6

Sal 0.19

Turb 8.00

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Andy Pinares Page 3 of 6

1240 Buoy #3 Round 2

YSI at Mid depth 7 ft

1245: Start Purge

1247: Start sample Buoy #3 Round 2, 4L

pH 7.38

DO 7.39

Temp 23.87

Sal 0.2

Turb 1.7

1255: At Buoy #4 - Round 2

YSI at Mid Depth 7.5 ft

1250: Start Purge

1258: Start sample Buoy #4 Round 2, 4L

pH 7.32

DO 7.3

Temp 23.24

Sal 0.2

Turb 5.3

1407 Start Purge Buoy #1 Round 3

1409 Start Sample Buoy #1 Round 3, 4L

YSI Mid Depth 7.9 ft

pH 7.47

DO 7.7

Temp 23.61

Sal 0.2

Turb 8.7

1420 Buoy #2 Round 3

Mid Depth for YSI 4.5 ft

1423 Start Purge

1425 Start Sample Buoy #2 Round 3, 4L

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Andy Pinares Page 4 of 6

pH 7.34

DO 7.38

Temp 23.44

Sal 0.20

Turb 5.6

1430: Just kicked up some turb due to anchor catching on a submerged branch (at Buoy #2)

~~At Buoy #3 Round 3~~ 8/3/13

1430 OSI Bally boat inside silt curtain north of dredge barge. Confirming depth?

1440: Start Purge Buoy #3 Round 1
 Mid Depth 7.3 ft

1442: Start Sample Buoy #3 Round 3, 4L

pH 7.39

DO 7.28

Temp 23.37

Sal 0.20

Turb 5.5

1452: At Buoy #4 - Round 3

1454: Start Purge, YSI Mid Depth 7.2 ft

1456: Start Sample, 4L

pH 7.33

DO 7.38

Temp 23.43

Sal 0.20

Turb 4.1

1520: Per Andy (CH2MHill) GLDS will finish dredging at 1730 today. CH2MHill going to collect 1 more round of composites (4 rounds total)

Location LPR-RM 10.9 Date 8/3/13Project / Client USACE - RM 10.9 Oversight
Amy E. Prunas Page 5 of 6

1555: Buoy #1 - Round 4

YSI at Mid Depth 8.6ft

1558: Start Purge

1600: Start Sample Buoy #1 - Round 4, 4L

pH 7.46 DO 7.96

Temp 23.92 Sal 0.19

Turb 12.2

1610: Buoy #2 - Round 4

YSI at Mid Depth 7ft

1613: Start Purge

1615: Start Sample Buoy #2 - Round 4, 4L

pH 7.42 DO 7.9

Temp 24.05 Sal 0.20

Turb 14.1

1620: J Wilkie fields call informing her to
move mobile air monitor downwind of dump
scow at end of dredging today. Should position
it NE of dump scow.

1625: Buoy #3 - Round 4

YSI at Mid Depth 8.25ft

1628: Start Purge

1630: Start Sample Buoy #3 Round 4, 4L

pH 7.26 Turb 11.7 Sal 0.2

Temp 23.82 DO 7.55

Location LPR-RM 10.9 Date 8/3/13Project / Client USACE - RM 10.9 Oversight
Amy E. Prunas Page 6 of 6

1640: Buoy #4 - Round 4

YSI at Mid Depth 8.3ft

1641: Start Purge

1643: Start Sample Buoy #4 - Round 4, 4L

pH 7.27 DO 7.32

Temp 23.69 Sal 0.20

Turb 8.7

1647: Stop Composite Sample Collection

1700: Return coolers to Field Office

1730: Depart site.

Approx 550 cy dredged today,
0945 to 1700.

Amy E. Prunas 8/3/13
Amy E. Prunas

Location LPR-RM 10.9 Date 8/5/13Project / Client USACE-RM 10.9 OversightAmly A. Farnas

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1000: Onsite, Field Office. Per J Rolfe, dredge resumed 0738.

1100: Onsite, Riverside Park.

Personnel: A. Farnas, J Rolfe, S Vaughn

Dredge cycle times approx 60 seconds.

Good seal, not much debris.

1200: Onsite, Field Office. Meeting up for split sample/composite sample collection, 2nd day of dredge

Personnel: Roger Law, J Kaczmarek, G Foster

Jeff Hildegartner, Mike, J Wilkie, J Balas,

Rachel Zayac-Fay, A. Farnas

J Wilkie email at 1110 confirming acceptance of upping frequency of composite sample to 1 hr bin samples.

1230: Buoy #1 - Round 3

YSI at MidDepth 8.25 ft

1237: Start Purge

1239: Start Sample Buoy #1 - Round 3, 8L

→ going to fill bottle approx. 8L ea. time

pH 7.54

DO 7.87

(to get enough volume)

Temp 23.27

Sal 0.22

Turb 16.4

1250: Buoy #2 - Round 3

YSI at MidDepth 5.5 ft

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1255: Start Purge

1255: Start Sample Buoy #2 - Round 3, 8L

pH 7.56

DO 8.4

Temp 23.69

Sal 0.22

Turb 22.8

1305: Buoy #3 - Round 3

YSI at MidDepth 7.45 ft

1308: Start Purge

1310: Start Sample Buoy #3 - Round 3, 8L

pH 7.66

DO 8.26

Temp 23.56

Sal 0.22

Turb 8.7

1320: Buoy #4 - Round 3

YSI at MidDepth 7.25 ft

1323: Start Purge

1325: Start Sample, Buoy #4 - Round 3, 8L

pH 7.52

DO 7.6

Temp 23.11

Sal 0.22

Turb 6.5

1340: Buoy #1 - Round 4

YSI at MidDepth 7.45 ft

1342: Start Purge

1344: Start Sample, Buoy #1 - Round 4, 8L

pH 7.65

Turb 12.8

Sal 0.22

Temp 23.78

DO 8.45

32 Location LPR-RM 10.9 Date 8/5/13
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Andy P. Thomas Page 3/3

1355: Buoy #2 - Round #4

YSI at MidDepth 5.75ft

1357: Start Purge

1359: Start Sample, Buoy #2 - Round #4, 8L

pH 7.66

DO 8.42

Temp 23.78

Sal 0.22

Turb 8.9

1412: Buoy #3 - Round #4, YSI at MidDepth 6.95ft

1415: Start Purge

1417: Start Sample, Buoy #3 - Round #4, 8L

pH 7.52

DO 7.78

Temp 23.41

Sal 0.22

Turb 6.90

1430: Buoy #4 - Round #4

YSI at MidDepth 6.75ft

1433: Start Purge

1435: Start Sample, Buoy #4 - Round #4, 6L

pH 7.45

DO 7.44

Temp 22.94

Sal 0.22

Turb 5.50

1500: Composite sampling complete. Back at Field

Office for bottle filling

1700: Split sampling complete. Split sample

Collected from Buoy #2. END OF DAY Andy P. Thomas
8/5/13

33 Location LPR-RM 10.9 Date 8/6/13
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Andy P. Thomas

0830: Onsite, Field Office

0900: J Rakowski picks up split samples.

Drops off additional bottles.

1000: First weekly progress meeting. Members of
denarius, ERDD, CH2M Hill, Clearwater,
CDM Smith, EPA in attendance. See Daily
Report for details.

1230: Discussed Turbidity Trigger & Action
Levels.

No dredging occurred

1730: County bridge threatening 2 week
shutdown

Andy P. Thomas
8/6/13

Location LPR-RM 10.9

Date 8/7/13

Project / Client USACE-RM 10.9 Oversight

Amy Shawas

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0800: Onsite, Field Office

Personnel: de Maximis, CH2MHill, CDM Smith

Weather: Overcast, Light Rain 70°F

1000: M Hoppe (EPA) observed bent equip
piece on Southern air monitoring unit
at Riverside Park1030: J Wilkie (CH2MHill) switched out bent
equip piece. Southern air unit functioning
properly

1100 Onsite, Riverside Park

Personnel: de Maximis, CDM Smith, USEPA, CH2M
Hill, public-press & politicians1300: Dredging continues, started sometime
before 1100. Silt drafting ~ 9 ft.- Good seal on bucket, not much decant
or release. Cycle times ~ 60 sec.- GLDD adjust silt curtain heights
for tide going out.- Material is primarily sandy (small coarse),
small branches, some small stone.1330: Lighter fluid smell upwind of mobile
air unit. In case of weird readings from
the unit.1340: Dredging cuts from shoreline working
towards channel.

Location LPR-RM 10.9

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Amy Shawas

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1340: No dredging tomorrow, per Skagnumek
(de Maximis). SK will inform us later.

1440: Dredging complete for the day.

- OSI will be in the silt curtain tomorrow
to survey.- Phase 1^{day} sampling will be 5 production
days. 2 days have been completed.

1500: Offsite for the day.

Amy Shawas
8/7/13

Location LPR-RM10.9 Date 8/9/13Project/Client USACE-RM 10.9 OversightAmey FiermasPage 1 of 7

1500: Dredging has resumed. CH2M Hill conducting transect sampling. Slack-low tide sampling.

1520: Fuchs dredge loading scow "CHUBBY".

About mid-way up southern dredge area, working from eastern shore outwards.

Cycle times approx 45 seconds. Appears

to be picking up debris or perhaps hydraulics are not functioning properly.

A lot of decant & sediment release observed. Three tugs escorting dredge.

Empty scow moored on western bank across from FD Boat Launch.

1530: Buoy #1 - Lined up 50ft from western shoreline based on Mean Low Water Level (A)

(OST has GPS points to hit mark)

1620: Buoy #1 - Total Depth, 13.9 ft

- Sampling paused to hit the proper tide conditions

- YSI at mid-depth, ~7ft

1629: Purge Start

1631: Sample Start - Buoy #1 A

- A = West Composite Sample Nomenclature

- B = Channel CSW-Buoy #1-YMMDS-L

- C = East

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L - Low Slack H - High Slack

F - Flood E - Ebb

- Filled Composite 7L

- Filled Grabos TSS, POC, DOC

pH 7.32 DO 7.16

Temp 23.53 Sal 0.25

Turb 15.3

1640: Buoy #1 - Channel (B)

- YSI at Mid-Depth 6.7 ft

1642: Start Purge

1644: Start Sample

pH 7.37 DO 7.14

Temp 23.58 Sal 0.27

Turb 14.2

- Filled Composite, 7L

- Filled Grabos, TSS, POC, DOC

1650: Buoy #1 - 50ft off East Shore (C)

- YSI at Mid-Depth 6.23 ft

1652: Start Purge

1654: Start Sample

pH 7.36 DO 7.14

Temp 23.6 Sal 0.24

Turb 17.3

- Complete Composite, 7L

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 Project / Client USACE-RM 10.9 Oversight
Amly Thomas Page 3 of 7

- Filled Grabs - TSS, POC, TOC
 1705: Buoy #2, Western Shoreline (A)

1708: Start Purge

1710: Start Sample, Buoy #2 A

pH 7.3 DO 7.2
 Temp 23.65 ~~Sal~~ 0.24
 Turb 10.6

- YSI at Mid Depth 6.4 ft

- Filled Composite, 7L

- Filled Grabs, TSS, POC, DOC

1715: Buoy #2, ~~Channel~~ (B)

- YSI at Mid Depth 6.3 ft

1718: Start Purge

1720: Start Sample, Buoy #2 B

pH 7.34 DO 7.1
 Temp 23.65 Sal 0.23
 Turb 10.6

- Filled Composite, 7L

- Filled Grabs, TSS, POC, DOC

1710-1735: Observed dredging, cycle times are faster. Getting better seal on the bucket. Still dredging from east shore working towards Channel. Silt curtain looks good. No turbidity plume, no odors. CHUBBY drafting ~ 5.5 ft

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Amly Thomas Page 4 of 7

1725: Buoy #2, Eastern shore (C)

- YSI at Mid Depth 2.8 ft

1731: Start Purge

1733: Start Sample, Buoy #2C

pH 7.2 DO 6.87
 Temp 23.39 Sal 0.24
 Turb 36.3

- Complete composite, 7L

- Filled Grabs - TSS, POC, DOC

1744: Buoy #3, 50 ft off Western Shore (A)

- YSI at Mid Depth 6.9 ft

1745: Start Purge

1749: Start Sample Buoy #3A

pH 7.3 DO 7.1
 Temp 23.72 Sal 0.22
 Turb 7.8

- Filled Composite, 7L

- Filled Grabs TSS, POC, DOC

1755: Start Purge

1757: Start Sample, Buoy #3B

- YSI at Mid Depth 6.4 ft

pH 7.3 DO 7.09
 Temp 23.72 Sal 0.22
 Turb 8.00

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Amly P. Pinares Page 5 of 5

- Filled Composite, 7L
- Filled Grabbs- TSS, POC, DOC
- 1800: Buoy #3- Eastern shoreline (C)
- YSI at Mid-Depth 7.19 ft
- 1804: Start Purge
- 1806: Start Sample, Buoy #3C
- pH 7.32 DO 7.11
- Temp 23.72 Sal 0.22
- Turb 6.8
- Complete Composite, 7L
- Filled Grabbs, TSS, POC, DOC
- 1813: Buoy #4, Western Shoreline (A)
- 1815: Start Purge
- 1817: Start Sample, Buoy #4A
- pH 7.26 DO 6.9
- Temp 23.72 Sal 0.21
- Turb 8.6
- YSI at Mid-Depth 5.84 ft
- Filled Composite, 7L
- Filled Grabbs- TSS, POC, DOC
- 1821: Buoy #4, Channel (B)
- 1823: Start Purge
- 1825: Start Sample, Buoy #4B
- YSI at Mid-Depth 6.56 ft

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Amly P. Pinares Page 6 of 6

- | | | | |
|------|-------|-----|------|
| pH | 7.27 | DO | 6.97 |
| Temp | 23.72 | Sal | 0.21 |
| Turb | 6.80 | | |
- ~~Filled~~ Complete Composite, 7L
 - Filled Grabbs, TSS, POC, DOC
 - 1830: Buoy #4- Eastern shoreline (C)
 - 1832: Start Purge
 - 1834: Start Sample Buoy #4C
 - YSI at Mid-Depth 7.02 ft
 - pH 7.27 DO 6.96
 - Temp 23.72 Sal 0.21
 - Turb 7.00
 - Complete Composite, 7L
 - Filled Grabbs- ~~TSS~~, DOC, POC
 - 1840: Sampling completed.
 - 1915: Onsite, Riverside Park
 - Southern Air Monitor running.
 - Hi-Vol air monitors running, can't tell if PM10 is running.
 - 1920: Currently not dredging
 - 1925: Middle air monitor- Hi-Vol samplers running
 - 1930: Northern air monitoring unit moved about 50 ft south. for JWWKie approval was

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given by M4ppe earlier today. ~~At~~ Original location doesn't get much air flow.

Hi-vol samplers running. Can't tell if PM10 is running.

1945: Can't see draft markings but eyeballing it, scow is drafting ~9 ft.

Off site for day.

Amy Starnas
8/9/13

Location LPR- RM 10.9Date 8/10/13Project / Client USACE- RM 10.9 OversightAmy Starnas

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0800: Onsite, Field office. CH2MHill & CDM Smith personnel present.

Weather: Sunny, 75°F

0830: Onsite, Riverside Park

Southern Air Monitor- both Hi-Vol samplers?

PQ 100 are active. Can't tell if PM10 is active. All equipment looks good.

0800: Dredging ongoing into scow CHUBBY, have ~1 ft to fill to get to 9 ft draft.

Cycle times about 45-60 seconds. Primarily small coarse material, some woody debris (especially close to shore). Dredge cuts moving from south to north, from east shoreline out to channel.

Mobile air unit in place (PM10), all equipment looks good.

1030: Dredging into scow CHUBBY is complete.

1035: Middle air unit- both Hi-Vol & PQ100 samplers are active. All equip looks good.

1045: Northern Air Monitor- both Hi-Vol samplers?

PQ 100 are active. Can't tell if PM10 is running. All equip looks good.

1200: New scow in place, about to resume dredging. Scow drafting 4 ft.

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1210: Cycle times still 45-60 sec, picking up debris near shore

1300: Dredging continues. Can see turbidity immediately around bucket cuts but it does not ~~migrate~~ migrate.

1315: GPS check

1530: Dredging continues. Saw drafting ~7ft row. Cycle times still 45-60 seconds. Small turb clouds form immediately around bucket but do not migrate. Buckets are approx 50/50 mix of sediment & water. No odors observed.

1600: All air samplers are shutdown.

1630: Off site for day.

Amy Stelmas
 8/10/13

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Benjamin Hammond page 1 of 5

0630 Ben Hammond on site for CDM Smith for transect sampling oversight and split sample collection

0700 meet with J. Wilkie (CH2M Hill) to discuss WQM plan for the day
 - transects 1 + 2 will be sampled today, split to be collected at 2

0830 On boat to dredge site with Rachel (CH2M) and Andy (CH2M) en route to transects 1 + 2

Weather: 70°F, overcast

PPE: level D w/ PFDsSM

Andy gives briefing on water sampling H & S

0835 observe that dredging has started

0840 at transect 1 preparing composite containers

- begin purge

stat sample #1, ^{BH} 7C

pH 7.61 temp 6.3 sal 0.28

temp 24.22 DO 8.28 depth 6.45

CH2M collects grab samples

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0850 purging #1 - ~~at~~^{BH} round 2
 - purge + add ~ 7L to bottle
 at each location
 - sample #1 ^{BH} round 2 (middle)
 pH 7.43 turb 8.27 sal 0.20
 temp 24.23 DO 8.9 depth 7.05

0900 purging #1 round 3 (eastern)
 - sample #1 round 3
 Field parameters:

pH ~~7.36~~ turb 10.5 sal 0.2
 temp 24.22 DO 8.21 depth 7.15

0915 relocate to transect #2, begin
 purge at western bank
 - sample parameters

pH 7.48 turb 8.4 sal 0.2
 temp 24.2 DO 8.26 depth 6.75

*note: collection points are at
 GPS points located ~ 50 ft
 from each bank and at center
 VSR and sample collection are
 from mid-depth

0925 transect #2, middle

0930 begin purge

0933 sample

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Ben Hammond Page 3 of 5

pH 7.5 turb 13 sal 0.2
 temp 24.23 DO 8.26 depth 6.65

0940 - we are missing the last set
 of bottlework for the grab
 samples at #2 - E
 - meet J. Wilkie at Fire dept.
 boat launch retrieve bottles

0950 purge at #2 E

0953 sample

pH 7.52 turb 19.5 sal 0.20
 temp 24.21 DO 8.16 depth 4.55

0955 finished collecting
 transect samples (composite and grab)
 returning to facility

1030 preparing to process composite
 samples

1100 Collected CSW-2-130812-L-C
 1L PCB 1L Dioxin

2 SOWPac/DO2 + MS/MSD 1L TSS

1200 Finish processing samples
 e-mailed G. Malnar and
 J. Rokoszki w/ sample IDs
 and analyses req'd

1210 BH off site for lunch

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1250 BH on site at Riverside Park
 - S. Vaughn (EPA) here as well
 BH reviewed site, areas of
 concern, items of interest
 regarding oversight with Amy
 Pizunas

1415 BH off site to return to
 facility, retrieve split samples
 and return them to Edison
 warehouse for pickup by
 J. Rakowski on 8/13 AM

Ben Hammond
 8/12/13

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1420 Southern Air Monitoring Unit:

- Hi-Vol samplers active & so is PQ100 sampler
- PM10 antennae look good

1425 Middle Air Monitoring Unit:

- Hi-Vol & PQ100 samplers active

1300-1400: OSI performed ^{confirmation} ~~verification~~
 survey, confirming GLDD reaching 2ft
 cut.

1435: Dredging resumes. Scaow is drafting
 ~6.5ft. Cycle times remain 45-60 sec.
 Sediment is primarily sand with some
 clay & and some wood debris. Good
 seat on the bucket.

1600: Offsite for the day.

Amy Pizunas
 8/12/13

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0830: Dredging into same scow from yesterday, drafting 7.5ft

-Two emptied scows moored north of dredging activities, across from FD boat launch.

-All three air monitoring units operational - Hi-Vol & PQ100 samplers active. PM10 attenuator look good.

-Per James, one unit at PMS-1 is giving the H₂S hits. CH2M Hill going to move that unit to a high ^{air} flow area to determine if it's a faulty unit.

1000: Weekly progress meeting - see ~~my~~ ^{my} daily report for details

1130-1230: Discussion with M. Hoppe, S. Budney, A. Parnas, J. Wilkie on H₂S hits at

PMS-1 & monitoring downwind of loaded dump scows. Agreed to position a mobile unit in the weather station channel (adjacent to FD boat launch) to monitor both for H₂S & CO₂ downwind of dump scows. If mobile unit does not register any H₂S hits, PMS-1 will be moved there. Otherwise PMS-1 will stay in it's

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Current location & hits will continue to be reported weekly on the www.rm10.9.com website.

1320: PMS2 - Hi-Vol & PQ100 samplers active.

PM10 covered up due to precipitation.

1350: Scow from this morning filled. New scow in place, drafting about 1ft.

1355: Mobile Air Unit both Hi-Vol samplers active, PQ100 appears inactive.

1410: PMS-1 - both Hi-Vol samplers & PQ100 sampler active. PM10 covered due to precipitation.

Scow loaded this morning moored w/ #4 USS across from FD boat launch. No odors observed.

1430: Dredging resumes. Cycle times 45-60 seconds. Picking up a lot of debris today, a lot of sediment loss occurring. Little turbidity clouds form but do not migrate. No odors observed. Sediment is predominantly sand/clay, some woody debris. Dredge cuts going from east shore out towards channel. Picking up a lot more clay now. Operator

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Amy Picunas Page 3 of 3

not allowing time for all the clay to drop
 out the bucket, resulting in some
 resuspension. Real-time turbidity monitors
 still look ok though.

1700: Dredging completed for the day. Scow drafting
 about 7ft. Per Ray, that scow was delivered
 to RM 10.9 from Chan Earth drafting about
 5.5ft.

1715: Offsite for the day.

Amy Picunas
8/13/13

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0800: Onsite Riverside Park

Weather: Sunny 70°F

Dredging resumes, scow drafting ~7ft.
 Getting cleaner buckets today, less debris.
~~Very slight~~ ^{Very slight} ~~no~~ turbidity plumes. Sediment is
 predominantly sandy silt, less clay & woody
 debris today. Cycle times about 45-60 sec.

0935: CH2M Hill is picking up last set
 of Phase 1 air samples ~~today~~ ^{right} now.

Phase 2 sampling starts today & will
 run for the next 5 days of active
 dredging. PG 100 & PM 10 only will be
 active today. All attenuae look good.

1200-1315: APicunas & BHammond (CDM Smith)
 watch the GLDD Dredging Health &
 Safety video.

1315: APicunas relinquishes logbook to
 BHammond.

Amy Picunas
8/14/13

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Ben Hammond on site for CDM Smith
 1330 at dock near Field Facility.

with S. Vaughn (EPA) and J. Rolfe (Am)
 preparing for visit to dredge barge
 PPE: Level D w/ PFD

1345: on boat with Roy (CH2M Hill)
 en route to dredge
 - currently 1 scow full, 1 empty,
 1 $\frac{2}{3}$ Full.

- this morning a 90' fitting on
 a hydraulic line broke and shut
 down dredging for ~1.5 hrs.

1420: on barge with SV, JR and Roy
 - observed engineers office and
 positioning/visualization software
 used to monitor bucket location,
 however dredging was not taking
 place during visit as we were
 there when GLDC was changing
 out scows, therefore we could
 not observe live tracking of
 dredging - maybe another day

note: we were given additional safety
 briefing by SR prior to boarding.

Location LPR - RM 10.9 Date 8/14/13
 Project / Client USACE - RM 10.9 Overight
Ben Hammond page 2 of 2

observed 4 monitoring screens,
 engineers' office, workshop, break room.
 took closer look at dredge bucket
 1445 returned to dock
 1515 BH on site at Riverside Park
 - GLDC are positioning barge
 at eastern bank (~70 ft away)
 in line with picnic area.

1600 scow now in place
 - low-profile scow ("chubby")
 - dredging cycle times 45-60 seconds
 About $\frac{1}{3}$ of the dredge cycles
 have noticeable decant and
 sediment release, due in part to
 debris near riverbank

1645 spoke w/ CH2M air technician
 - confirmed that only PM10 and
 PM100 are running, as well as
 PCB sample at southern
 station (was not working previously)

1755 GLDC done for today
 - scow drafting ~5.5 ft

1800 BH off site

Ben Hammond 8/14/13

LPR-RM 10.9

8/15/13

USACE - RM 10.9 oversight

Ben Hammond

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- 0800 - BH on site at Riverside Park
- 0815 - dredging resumes at area just south of prior area in park
- per J. Rolfe, GCDD dabled back to this area, which was not entirely accessible previously due to tidal conditions, to complete it today
- 0930 - barge rotated 180° and moved north
- required some manipulation of turbidity curtains - no issues noted
 - dredging continues
 - good seal observed, generally silty clay soils, no plumes
- 1000 spoke with J. Rolfe, who says bridge repair is not done but could be this afternoon
- 1130 discussed air monitoring on phone with A. Picunas
- AP recommended downwind monitor for PCBs and maybe Dioxins at PSA #1 if all 3 barges are going to be moved full for some time
 - she relayed this in e-mail to EPA

LPR-RM 10.9

8/15/13

USACE - RM 10.9 oversight

Ben Hammond

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- 1330 PSA #1, #2, #3 appear to be functioning correctly
- collecting Dioxin sample today
- mobile unit stationed appropriately
- 1530 SCOW is Full
- operator is cleaning off side of scow
 - per J. Wolfe (From Roy) tomorrow will be a maintenance day on the river, no dredging
 - according to S. Kaczmarek, they anticipate moving out 2 barges tonight and unloading @ Clevearth tomorrow.
- 1535 BH off site

BH
8/15/13

Location CPR RM 10.9 Date 8/17/13
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0930 BH on site at Clean Earth
 weather: 75° F sunny

accompanied by John Rife (dmr)

- signed in and received H&S
 briefing from Mike (CH2M) and
 Chris Thorpe (Clean Earth)

0945 - 1130 observed offloading of
 "Chubby" scow and dewatering
 of longer scow

- no issues noted. operations were
 tidy and free of spillage or
 unsafe practices

1130 Clean Earth personnel break for
 lunch. BH off site.

[Signature]
 8/16/13

Location CPR RM 10.9 Date 8/17/13
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0810 BH on site at Riverside Park

weather: 70° F sunny
 per S. Kozmarek, first bucket was
 at 0802.

all 3 scows are here

- "Chubby" is being filled now

- was emptied to ~3.5' at
 Clean Earth (mostly empty now)

- deeper scow could only be
 emptied halfway (~5.5')

due to high tide yesterday

- other deep scow still full

0830 Checked air monitoring locations

- no 24-hr COPC samples running
 unclear why not

- S. Kozmarek checking into ^{H&S at} ~~PA5612~~
 BH

0930 Noted turbidity at

52.4 NTU @ buoy 4

0945 - 67.9 @ buoy 4

- 41.6 @ buoy 2

- 7.40 @ 3

- 18.7 @ 1

note: dredging 0800-0900 was somewhat
 sloppy - several passes included chunks
 of clay falling back into river

Location LPR - RM 10.9 Date 8/17/13
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however no visible turbidity plumes
 were generated

Since ~~at~~ 900 dredging has been
 neater

1000	buoy 1	19.80 NTU
	2	36.5 NTU
	3	7.2 NTU
	4	47.2 NTU

all below 50 NTU

- Furthermore, 4 is upriver and
 likely unrelated.

1015	1	19.4 NTU
	2	40.7 NTU
	3	8.3 NTU
	4	78.2 NTU

1030	1	22.6 NTU
	2	41.4 NTU
	3	6.7 NTU
	4	81.2 NTU

1045	1	17.3 NTU
	2	28 NTU
	3	6.3 NTU
	4	78.3 NTU

- no response needed

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1130 good seal observed on bucket -
 very little loss of sediment.
 turbidity curtains in working
 condition.

1200 Per S. Kaczmarek, no 24-hour
 monitoring today. will resume Monday.

1215 Heard what sounded like a
 fear to the turbidity curtain
 but it is not visible and may
 have been mechanical noise.

- in any case, silt curtains are
 being moved out to allow dredge
 operation further from bank.

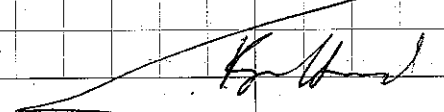
1545 finished dredging for today
 low-profile scow, filled to 9.5'

note: real-time monitoring of Vals,

dust and H₂S was ongoing at
 PMS#1, #2 and the mobile and

upwind stations. all stations intact.

1600 finished dredging for the day, per Stan.
 2 Full barges will move downriver tonight
 BH off site.

 8/17/13

Location LPR-RM10.9 Date 8/19/13Project / Client USACE-RM 10.9 OversightAmy Stewart

1110: Onsite. GLDD finishing dredging of southern section of RM 10.9. OSI will perform bathymetry after dredging is complete.

1230: PMS #1 - both Hi-Vol samplers & the PQ100 are active.

1235: Mobile PMS - both Hi-Vol samplers & the PQ100 are active.

1240: Currently no dredging occurring. Scow is drafting ~9ft.

1250: PMS #2 - both Hi-Vol samplers & the PQ100 are active.

1300: No dredging right now. Scow is bottomed out.

1700: GLDD resumes dredging, hitting the high spots in southern end of RM 10.9 dredge area. Scow is drafting 9ft. Sediment is mostly sandy clay with some woody debris. Cycle times 45-60 sec.

1800: Offsite for the day.

Amy Stewart
8/19/13

Location LPR-RM 10.9 Date 8/20/13Project / Client USACE-RM 10.9 OversightAmy Stewart

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0800: Dredging high spots continues. Dredging into "CHUBBY" the low-profile scow. CHUBBY came back from Clean Earth with approximately 1ft of sediment in the bottom. Currently drafting ~7ft.

The second high-profile scow came back from Clean Earth empty. Moored across from Little League fields & drafting ~3.5 ft.

1000: Weekly Progress Meeting at field office.

- Plan to be done with Section 1 tomorrow morning, then OSI will perform survey

- CH2MHill & demarquis working with Clean Earth to offload more efficiently & safely

- 80 trucks of stabilized material sent to rail yard, no cars have left rail yard yet.

- 60,000 gal of decant water treated, awaiting sampling results in order to release

- Clean Harbors will begin shipping out 40,000 gal/day this wk

1030: Discussion b/w SK, AW, MH & AP - PMS #2 (boxcar cart) will get moved north of Little League fields once GLDD moves dredge

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Amey P. Farnas Page 2 of 3

operations north of "No Dredge Zone" (utility clearance)

1100: Discussion w/ SK & AP - Offloading Concerns at Clean Earth. AP expressed concerns over continued partial offloading at Clean Earth.

- Clean Earth has cut holes in stern-port side of splash guards in the high profile scows to ease dewatering (there is a port on the bow that provides easy bow access for dewatering)
- Other hampering issue is the offloading of the high profile scows during ebb & high tides. The scow splash guard butts up against Clean Earth's landside splash guard & the high profile of the scow prevents Clean Earth excavator operator from seeing into the scow. Clean Earth has now implemented a program of only offloading the ~~scow~~ high profile scows during slack and low tide.

1200: PMS #2 - one Hi-Vol sampler running.
 PMS #1 - one Hi-Vol sampler running
 PMS #3 - one Hi-Vol sampler running
 Mobile Monitor - PM10 antenna bent, see photo.

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- Mgt informed SK of the problem at Mobile Monitor

1500: Dredging continued until 1500. Dredging suspended due to low tide. Can see clean cuts along the southern bank, however the northern cuts are sloppy. Should GLDD go back = re-dredge? PCBs, metallics

1620: Offsite for the day.

Amey P. Farnas
 8/20/13

Location LPR- RM 10.9

Date 8/21/13

Project / Client USACE- RM 10.9 Oversight

Amy Parnas

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0830: Onsite, Riverside Park.

- Weather: Sunny 80°F

- No dredging occurring yet. Dredge barge sitting w/ empty high-profile scow, drafting ~3.5 ft. Tear in silt curtain, bld causing by current.

- PMS 1, 2, & 3 - one Hi-Vol sampler active, all equip is in good condition

- Mobile Monitor - A Watson (42M Hill) replaced the damaged intake valve & repositioned immediately adjacent to dredge barge.

- Both filled scows transported downriver to Clean Earth facility for offloading.

1030: M Passaro, B Franklin, S Vaughn, J Budney, M Hoppe, S Kaczmarek, NJDEP onsite at Riverside Park.

- Dredging started around 0900, focusing on dredging near shore high spots.

- Cycle times are 45-60 seconds

- Some clay, lots of debris (branches, concrete, rocks). Predominantly sandy clay.

- Dredging into high profile scow, drafting about 5 ft by 1200.

- No turbidity plumes observed.

- Slight PCB odors observed.

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Date 8/21/13

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Amy Parnas

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1400: S Kaczmarek, J Royle, M Passaro, S Budney, M Hoppe, B Franklin, K Sykes onsite at Clean Earth for a tour.

- CHUBBY (low-profile scow) already dewatered, sediment being offloaded by Komatsu PC 1250.

- Large debris observed, predominantly tree branches / trunks.

- Per K Sykes, still adding Portland at 10% mix

- Portland + sediment mix deposited in center bay for stabilizing.

- High-profile scow being dewatered. Per K Sykes the new splash guard windows definitely aid in dewatering.

- Sediment will be offloaded during low tide.

- Clean Earth loaded out a number of trucks this morning with sediment treated on Monday. Small pile of remaining sediment (roughly 100 cy) looks stable (i.e. no free liquids)

- CAT front end loader folds and consolidates the stabilized sediment.

Location LPR - RM 10.9 Date 8/21/13Project / Client USACE - RM 10.9 OversightAmy Picumas Page 30/3

Concrete pad is relatively clean & well organized.

1100: Another tear in silt curtain, again due to high flowing tidal currents. Dredging suspended until curtain can get repaired.

1100: Dredging stopped for the day. G/site for the day.

Assigning field notebook to M. Pissano, CDX Smith

Amy Picumas
8/21/13

Location LPR - RM 10.9 Date 8/22/13Project / Client USACE - RM 10.9 OVERSIGHTMeadell L. Pissano PAGE 1 OF 4

0700: ONSITE AT RIVERSIDE PARK.

- WEATHER TODAY: OVERCAST, 100% CHANCE OF RAIN. ON AND OFF SMALL SHOWERS. HIGH OF 70°F.

- NO DREDGING ACTIVITIES OCCURRING AT THIS TIME.

- AREA 1 SURVEY IS SUPPOSED TO BE HAPPENING AT SOME POINT THIS MORNING. NO ISI BOATS ONSITE AT THIS TIME.

- SILT CURTAIN IS STILL IN PLACE

- ~~LARGE SCOW~~ ^{M&P} ~~AND~~ LOW PROFILE SCOW FROM THE PROCESSING FACILITY THE PREVIOUS DAY ARE MOVED IN THE MIDDLE OF THE RIVER ADJACENT TO THE WEATHER STATION.

0830: MOBILIZED TO FIELD OFFICE. AMY PICUMAS IS ONSITE.

0900: LARGE WET WEATHER EVENT OCCURRING. FLOOD WARNINGS ARE ISSUED FOR SURROUNDING AREAS. CREW STANDS DOWN DUE TO LIGHTNING AS WELL.

1050: MOBILIZE TO RIVERSIDE PARK

- JOHN WITH DE MAXIMIS AND MIKE HOPPE WITH EPA ARE ALSO AT THE RIVERSIDE PARK

Location LPR - RM 10.9 Date 8/22/13Project / Client USACE - RM 10.9 OVERSIGHT
Meadell, L. Passaro PAGE 2 OF 4

1115 MIDDLE SECTION OF THE SILT FENCE IS BEING COLLECTED ON THE BARGE. ITS OBSERVED THAT THE SECTIONS ON EACH END HAVE NOT BEEN COLLECTED AND ARE STILL IN PLACE.

1132 IT WAS CONFIRMED BY JOHN THAT THE SILT FENCE IS NOT BEING MOVED, BUT THAT THE MIDDLE SECTION IS BEING REPLACED. YESTERDAY THE CURTAIN WAS DAMAGED BY LOGS DURING HIGH FLOWS. IT IS FOR THIS REASON THE CURTAIN NEEDS TO BE REPLACED.

1135 AMY PICUNAS MADE CALLS TO BOTH SHARON BUDNEY AND STEPHANIE VAUGHN IN REGARDS TO THE SILT FENCE SITUATION.

1138 CONDUCTED OVERSIGHT OF ALL AIR MONITORING STATIONS TO CHECK FOR POSSIBLE DAMAGE DURING STORM.

- PMS #2 = GOOD CONDITION, NOT RUNNING.

- MOBILE UNIT = GOOD CONDITION, NOT RUNNING

- PMS #3 = GOOD CONDITION, NOT RUNNING

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Meadell, L. Passaro PAGE 3 OF 4

- PMS #4 = GOOD CONDITION, NOT RUNNING

- WEATHER STATION = INTACT

1200 WEATHER: STILL STEADILY RAINING NOT AS HARD AS THE STORM BEFORE.

1212 BATHY SURVEY IS TAKING PLACE.

1215 STAN OF DE MAXIMIS IS ON SIGHT. MENTIONED THE RELEASE OF A NEW BARGE SCHEDULE TODAY. WILL ALSO PASS ALONG COMPLETED SURVEY BY MIDAFTERNOON.

1245 M. PASSARO AND A. PICUNAS OFFSITE FOR LUNCH.

1300 MOBILIZE BACK TO THE FIELD OFFICE.

1315 A. PICUNAS OFFSITE.

1400 M. PASSARO MOBILIZE BACK TO THE RIVERSIDE PARK.

1426 SPOKE WITH JOHN WHO JUST GOT BACK FROM THE PROCESSING FACILITY:

- 9 WATER TRUCKS

- 19 OUT OF THE 31 SOIL TRUCKS GETTING LOADED UP.

1427 IN RIVER AIR MONITORING STATION IS

Location LPR - RM 10.9 Date 8/22/13Project / Client USACE - RM 10.9 OVERSIGHTMeredith L. Passaro PAGE 4 OF 4

- 1427 STILL IN PLACE.
- 1430 RAIN IS BEGINNING TO PICK UP AGAIN.
- 1435 HIGH PROFILE SCOW - 0230 IS DRAFTING BETWEEN 7-8 ft. TOG IS IN WAY OF DETERMINING EXACT DRAFT. UNABLE TO SEE DRAFT OF LOW PROFILE SCOW.
- 1500 DREDGE CREW IS IN THE PROCESS OF PICKING UP PART OF THE OLD SILT CURTAIN. THE ~~ENTIRE~~^{MU} PARTS OF THE CURTAIN REMOVED EARLIER HAVE BEEN REPLACED.
- 1530 CREW MOVED BARGE TO NORTH SIDE OF SILT CURTAIN AND IT APPEARS TO BE THAT THEY ARE MOVING DEBRIS BUILDUP ON THE OUTSIDE OF THE SILT CURTAIN AND ARE DROPPING IT ON THE INSIDE OF THE SILT CURTAIN. WILL HAVE TO ASK JOHN OR STAN THE PURPOSE BEHIND THIS.
- 650 CREW IS STILL ON BARGE, BUT HAS BEEN INACTIVE. M. PASSARO OFFSITE.

Meredith L. Passaro 8/22/13

Location LPR - RM 10.9 Date 8/23/13Project / Client USACE - RM 10.9 OVERSIGHTMeredith L. Passaro PAGE 1 OF 2

- 0810 ONSITE AT RIVERSIDE PARK.
- WEATHER TODAY: RIGHT NOW CLEAR AT 73°F. WIND IS 3.0 mph FROM NNW GUSTING UP TO 7.0 mph.
 - IN RIVER AIR MONITORING STATION IS IN CORRECT PLACE.
 - DREDGING ACTIVITY IS TAKING PLACE, WILL NEED TO CONFIRM WITH STAN AND JOHN LATER THAT WE ARE IN AREA 2.
 - CLEAN SEAL IS OBSERVED, DREDGING IS TAKING PLACE MORE TOWARDS THE MIDDLE OF THE RIVER. NOT MUCH WOOD/FILL MATERIAL IS OBSERVED, WHICH ALLOWS FOR A GOOD SEAL.
 - CYCLE TIMES ARE RANGING BETWEEN 60-90 seconds.
 - DREDGE MATERIAL IS BEING DEPOSITED INTO "CHUBBY," THE LOW PROFILE SCOW.
- 0843 MOBILE AIR MONITORING STATION IS IN GOOD CONDITION AND IS RUNNING ANDY FROM HULL IS ONSITE CHECKING IT.
- 0850 UNABLE TO IDENTIFY ~~HOW~~^{THE} THE LOW PROFILE SCOW'S DRAFT SCALE IS OBSCURED BY TUG BOATS AND DREDGE BARGE. AT LEAST 6'

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- 0850 OF THE SCOW IS ABOVE WATER AND BELOW THE SPLASH GUARD.
- 0900 STAN OF DEMAXIMIS IS ON SITE:
- IT WAS CONFIRMED THAT THE GLDD IS MAKING CUTS IN SECTION 5 OF AREA 2.
 - THE SURVEY HAS STILL NOT BEEN RECEIVED SO AREA 1 HAS STILL NOT BEEN CLEARED FOR COMPLETENESS.
 - DISCUSSED DOUBLE CHECKING TO MAKE SURE THE SILT FENCE IS IN SAME LOCATION. CONFIRMED THAT IT IS BUT ^(getting 20 ft) IS BEING BLOWN IN BY THE WIND.
 - BARGE FROM CLEAN EARTH RETURNED LAST NIGHT AND NO SEDIMENT IS BEING UNLOADED AT CLEAN EARTH TODAY.
 - GLDD DREDGED FOR AN HOUR LAST NIGHT STARTING AT APPROXIMATELY 17:15 TO 18:15.
 - TENTATIVE SCHEDULE FOR TODAY IS TO FILL THE LOW PROFILE SCOW AND ONE OF THE HIGH PROFILE SCOWS TO TRANSPORT BACK TO CLEAN EARTH.
- 0920 DREDGING HAS PAUSED AND THE SILT

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- 0920 CURTAIN IS BEING READJUSTED.
- 0930 DREDGING ACTIVITY RESUMES.
- 0931 CONFIRMED: WEATHER STATION IS IN GOOD CONDITION
- ALSO CONFIRMED THAT BOTH HIGH PROFILE SCOWS ARE ON SITE
 - THE EASTERN DAWN IS ANCHORED BESIDE SCOWS.
 - HIGH PROFILE SCOW IN FRONT IS DRAFTING $\approx 4'$. HIGH PROFILE SCOW ON OPPOSITE SIDE, SCALE OBSCURED, APPEARS TO BE DRAFTING BTW 5-6 ft.
- 0941 OBSERVED SHEEN ON TOP OF WATER NEAR DEBRIS ALONG SHORELINE. WILL TRY TO DETERMINE IF BIOLOGICAL OR NOT AND IF NOT WILL ARRANGE TO GO OUT ON BOAT.
- 0942 SPOKE WITH STEPHANIE FROM EIA ON PHONE ABOUT WHERE CURRENT DREDGING IS TAKING PLACE AND THAT THE SILT CURTAIN HAS NOT BEEN MOVED.
- 0945 PMS#1 IS IN GOOD CONDITION AND IS RUNNING.
- 0950 FOUND A LARGE STICK AND RAN IT

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0950 THROUGH A COUPLE OF THE STEENS ONE SECTION SPLIT UP A BIT MORE JAGGED, THE OTHER SPLIT UP MORE S.W.R.L.Y - ROUND ATTRIBUTING THIS TO A MIXTURE OF BOTH BACTERIAL EXTREMISTS OF THE VEGETATION IN THE WATER AND ALSO PETROLEUM BASED SUBSTANCES FROM RUNOFF OF THE STORM YESTERDAY. THERE IS NO EVIDENCE TO SUGGEST THE DREDGE ACTIVITIES ARE RESPONSIBLE FOR THIS SHEEN. NO TRAIL, NO COALESCENCE

1015 SPOKE WITH ANDY FROM HILL. OBSERVED THE DUST CALIBRATION ON THE MOBILE AIR MONITORING STATION. WENT TO DR.

1032 PMS #2 IN GOOD CONDITION AND RUNNING.

1040 PMS #3 IN GOOD CONDITION AND RUNNING.

1100 DREDGE OPERATION CONTINUES. STILL FILLING LOW PROFILE SCOW IN AREA 2 SECTION 5.

1105 MOBILIZE TO FIELD OFFICE.

1212 BACK ONSITE AT RIVERSIDE PARK.

- LOW PROFILE SCOW IS FULL AND WAS SWITCHED OUT FOR A HIGH PROFILE SCOW.

- CURRENTLY POSITIONING THE SILT CONTAIN ALONG THE EDGE OF THE SCOW. AND CONTINUING TO DREDGE.

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1230 WATER LEVELS ARE BEGINNING TO DROP DUE TO LOW TIDE.

- STAN FROM DE MAXIMUS IS ONSITE AND HAS INVITED TO GO OUT ON THE BOAT FOR A DIFFERENT PERSPECTIVE OF THE DREDGE OPERATIONS.

- ALSO STATED THAT THE SURVEY OF AREA 1 WILL NOT BE COMPLETED TODAY.

- IT SHOULD BE NOTED THAT THERE HAS BEEN A VERY LARGE VOLUME OF GARBAGE ON THE RIVER TODAY, THIS IS DUE TO A LARGE CSO UPRIVER ACCORDING TO CONSTRUCTION MANAGER ROY.

1245 STAN AND M. PASSARO LEAVE RIVERSIDE PARK FOR BOAT LAUNCH. ALL PARTIES WORE PROPER PPE.

- SCOW CURRENTLY USED FOR DREDGING IS DRAFTING 7'. ROY SAID THEY WILL GO TO 9' AND STOP.

- THE FULL HIGH PROFILE SCOW AND FULL LOW PROFILE SCOW WILL MOBILIZE TO CLEAN CANAL AT 2300.

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1300 WAS ABLE TO CONFIRM THAT THE IN RIVER MONITORING STATION IS IN GOOD CONDITION AND IS RUNNING.

- WAS ALSO ABLE TO CONFIRM THAT THE SILT CURTAINS LOCATION AGAINST THE BARGE IS FLUSH TO THE SCOW.
- NO SHEENS AND NO ODORS WERE OBSERVED DURING THE ACTIVE DREDGING.
- ALL SEALS WERE CLEAN FROM THIS PORTION OF THE RIVER.

1335 ARRIVED BACK AT RIVER FRONT PARK. STAN IS OFFSITE BACK TO THE FIELD OFFICE M. PASSARO OFFSITE FOR BATHROOM/LUNCH.

1400 M. PASSARO BACK ONSITE AT RIVER FRONT PARK.

1500 DREDGE ACTIVITIES HAVE PAUSED. BARGE IS RELOCATING.

- SCOW IS DRAFTING CLOSE TO 9 FT. SCALE IS CLOSE TO 8.7'. DREDGING WILL END AT 9' DRAFT DUE TO LOW TIDE.
- IT IS CURRENTLY LOW TIDE NOW, THE MUD FLATS ARE COMPLETELY EXPOSED.

1512 CLAMSHELL IS BEING PLACED BACK ON

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1512 THE BARGE AND OPERATOR IS VACATING THE EXCAVATOR.

- MIDDLE OF THE SCOW IS DRAFTING 9' DREDGING IS MOST LIKELY NEAR COMPLETION TODAY.

1515 OPERATOR SWITCHED OUT. NEW OPERATOR IS NOT DREDGING BUT IS PICKING UP WATER BUCKETS AND DUMPING ON SOE OF SCOW. WILL CONFIRM WITH AMY WHETHER THIS IS PROTOCOL OR NOT.

1525 CLAMSHELL BUCKET IS BACK ON DREDGE. SCOW IS BEING MOVED FORWARD.

1530 STAN IS BACK ONSITE. HE RECEIVED A CALL CONFIRMING DREDGING ACTIVITIES FOR THE DAY ARE COMPLETE. HIGH PROFILE SCOW IS DRAFTING 8.5'.

- AMY CONFIRMED RINSING THE SCOW IS ROUTINE.

1545 M. PASSARO OFFSITE FOR THE DAY.

Meredith Passaro 8/23/13

Location LPR - RM 10.9 Date 8/24/2013Project / Client USACE - RM 10.9 OVERSIGHTMeredith L. Passaro PAGE 1 of 6

- 0750 ONSIGHT AT RIVERSIDE PARK.
- WEATHER TODAY IS: Clear, 65.7°F, wind at 5.0 mph / 8.0 mph gusting
 - STILL LOW TIDE THIS MORNING.
 - BOTH HIGH PROFILE AND LOW PROFILE SCOW ARE OFFSITE AND HAVE BEEN TRANSFERRED TO THE CLEAN EARTH FACILITY.
 - NEXT HIGH PROFILE SCOW HAS BEEN MOVED IN PLACE NEXT TO DREDGE BARGE AND IS DRAFTING APPROXIMATELY 4 ft.
 - CLAMSHELL BUCKET IS STILL ON DREDGE BARGE. NO DREDGING ACTIVITIES HAVE BEGUN TODAY.
 - SILT CURTAIN IS STILL IN SAME POSITION AND IS IN TACT.

- 0820 PMS #2 IS IN GOOD CONDITION AND RUNNING.
- MOBILE AIR MONITORING IS IN PLACE AND IN GOOD CONDITION BUT DOES NOT SOUND LIKE ITS RUNNING.
 - PMS # 3 IS IN GOOD CONDITION AND IS RUNNING.
 - Weather station is in good condition.
 - In river air monitoring station is in correct position and appears to be in

Location LPR - RM 10.9 Date 8/24/2013Project / Client USACE - RM 10.9 OVERSIGHTMeredith L. Passaro PAGE 2 of 6

- 0820 GOOD CONDITION.
- PMS #1 IS IN GOOD CONDITION AND RUNNING.
- 0910 DREDGING HAS STILL NOT STARTED.
- OBSERVED SAME BOAT AS A COUPLE DAYS PRIOR IN AREA 1. MIGHT BE RE-DOING THE BATHY SURVEY. WILL NEED TO CONFIRM WITH JOHN OR STAN TODAY.
- 1020 DREDGING ACTIVITY BEGINS.
- 1030 DREDGING ACTIVITY HAS STOPPED. TAYLOR FROM C2HMHILL ONSITE.
- 1040 JOHN ROLFE OF DE MAXIMUS IS ONSITE.
- HE JUST CAME BACK FROM CLEAN EARTH. HIGH PROFILE SCOW IS EMPTY, LOW PROFILE SCOW IS BEING DEWATERED. 10 WATER TRUCKS WILL BE GOING OUT TO BALTIMORE AND SEDIMENT TRUCKS GOING TO RAIL YARD.
 - HE SPOKE WITH ROY AND DREDGING STOPPED BECAUSE THERE ARE ISSUES KEEPING THE SILT CURTAIN IN PLACE DUE TO TIDAL FLOWS. ONCE SECURE DREDGING WILL BEGIN.
- 1107 M. PASSARO OFFSITE TO VISIT CLEAN EARTH FACILITY.

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- 1128 M. PASSARO ONSITE AT CLEAN EARTH FACILITY.
- SIGNED IN AT BOTH TRAILERS. WORKERS ARE CURRENTLY ON BREAK.
 - WATER TRUCK IS ONSITE TO CONTROL THE DUST.
 - LARGE SCOW IS EMPTY, LOW PROFILE SCOW IS BEING UNLOADED.
 - OBSERVED UNTARRING/LOADING OF SEDIMENT IN TRUCK - WILL MOST LIKELY FILL ANOTHER 4-5 TRUCKS TODAY PUTTING TOTAL IN MID TWENTIES
 - ONSITE DUST IS AN ISSUE, WATER TRUCK WAS STARTING AT ENTRANCE AND MADE ANOTHER PASS WHEN I LEFT SIGHT
 - OBSERVED UNLOADING OF LOW PROFILE SCOW INTO HOPPER, GOOD SEAL, NO SLOPPING OF MATERIAL.

1200 M. PASSARO OFFSITE AT CLEAN EARTH FACILITY. MATT WITH HILL WAS ONSIGHT AND GUIDED ME AROUND THE SIGHT.

1225 M. PASSARO BACK ONSIGHT AT RIVERSIDE PARK.

1230 DREDGE ACTIVITIES HAVE STARTED ALONG

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- 1230 THE SHORELINE TAKING ADVANTAGE OF THE HIGH TIDE.
- FAINT ODOR OBSERVED WHEN BUCKET COMES OUT OF THE WATER
 - DISCUSSED WITH JOHN THE HIGH TURBIDITY READINGS AT BOUY 48, HAS BEEN HIGH ALL MORNING ^{NOT} DUE TO THE DREDGING WHICH STARTED 10 MINUTES AGO.
- 1320 DREDGING HAS STOPPED. IT APPEARS THAT THERE ARE ISSUES WITH THE CLAMSHELL BUCKET. WILL HAVE TO CONFIRM THIS WITH JOHN. CLAMSHELL BUCKET WON'T OPEN.
- 1331 CREW HAS LIGGED BUCKET UP TO CLAMSHELL AND HAS GOT IT TO OPEN. DREDGING HAS BEGUN AGAIN. SCOW IS DRAFTING ABOUT 5 FT.
- CYCLE TIMES ARE RANGING BETWEEN 60-90 s.
- 1500 DREDGE CREW HAS MOVED BARGE IS DRAFTING 5.5-6.0 FT. NOT SURE WHY WORK HAS STOPPED.
- JOHN IS ONSITE. HE SPOKE WITH BOY WHO CLEANED UP AROUND BOUY 4 WHICH IMPROVED TURBIDITY.

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1500 - THEY ARE ALSO GOING TO MAKE SURE THAT WATER TRUCKS ARE FREQUENTLY USED FOR DUST.

- 11 WATER TRUCKS AND 26 SEDIMENT TRUCKS WERE FILLED AT CLEAN EARTH. BOTH SCOWS WERE EMPTIED AND WILL MOBILIZE TO THE SITE TONIGHT OR SUNDAY.

- ENGINEER IS CLIMBING TO OPERATOR PIT OF EXCAVATOR, SOMETHING MAY BE WRONG WITH THE SYSTEM.

1510 WATER LEVEL IS STARTING TO DROP, LOW TIDE IS COMING IN.

1512 BARGE AND SCOW WERE STUCK DUE TO WATER LEVEL DROPPING. MOVING THEM IS FINALLY SUCCESSFUL. WILL HAVE TO REPOSITION SILT CURTAIN. EVENT KICKED UP A TURBIDITY CLOUD.

1525 DREDGING OPERATION CONTINUES.

- MATERIAL BEING BROUGHT UP IS MOSTLY CLAY.

- DRAFTING 6'

1545 GLDD IS HAVING A DIFFICULT TIME KEEPING THE BUCKET CLOSED.

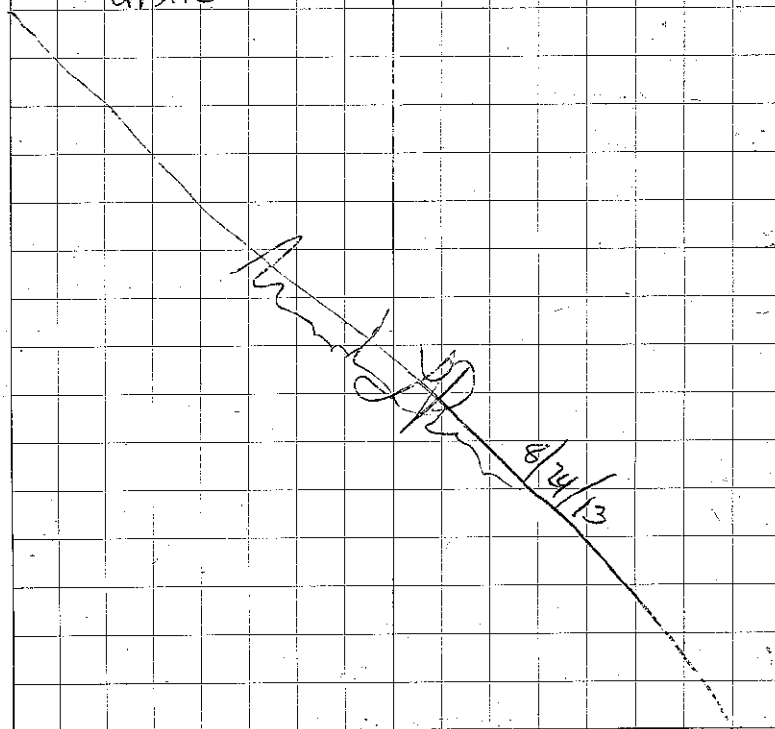
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1553 JOHN SPOKE WITH ROY WHO SAID DREDGING WILL CONTINUE TONIGHT UNTIL 1830 OR UNTIL THE TIDE STOPS COOPERATING.

1555 WILL LOOK AT DRAFT ON MONDAY TO COMPLETE HOW MUCH WAS DREDGED TODAY.

1600 M. PASSARO AND JOHN ROLFE ARE OFFSITE.



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0810 M. PASSARO ONSITE AT RIVERSIDE PARK.
 - WEATHER IS 70°F. HUMIDITY OF 77%
 EXPECTING SCATTERED THUNDERSTORMS TODAY.
 WIND GUSTING 5-8 mph SSW.
 - BOTH LOW AND HIGH PROFILE SCOW
 ONSITE FROM CLEAN EARTH FACILITY.
 - DREDGING OPERATION HAS NOT BEGUN
 YET TODAY.
 - MOBILE AIR MONITORING STATION HAS BEEN
 MOVED TO WATERSIDE IS IN GOOD CONDITION
 AND IS RUNNING.
 - HIGH PROFILE SCOW FROM MOODY IS
 CURRENTLY BEING MOVED. IT'S DRAFTING
 6' WHICH IS SAME AS AT 1600 ON
 SATURDAY. WILL NEED TO CONFIRM NO
 MORE DREDGING TOOK PLACE AFTER ~~1600~~
 LEFT SIGHT.

0840 DREDGE BARGE IS MOVING BACK UP TO
 AREA 2.
 - High profile ^{scow} barge drafting 6' is moved
 back in place beside barge.

0920 DREDGING BEGINS FOR THE DAY
 - CLEAN SEAL IS OBSERVED.
 - CYCLE TIME IS 60-90 SECONDS.

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0950 PMS#2 ^{PQ100} IN GOOD CONDITION AND RUNNING.
 - PMS#3 - PQ100 SOUNDS LIKE ITS RUNNING
 BUT GENERATORS ARE DEFINITELY NOT
 ON. EQUIPMENT IS IN GOOD CONDITION.
 - WEATHER STATION IS IN GOOD CONDITION
 BUT DOESN'T SOUND ON.
 - PMS#1, PQ100 - IS ON AND RUNNING.
 EQUIPMENT IS IN GOOD SHAPE.
 - HILL IS ONSIGHT MAKING ROUNDS TO
 THE AIR MONITORING STATIONS.
 - IN RIVER AIR MONITOR IS IN PROPER
 PLACE.

1043 STAN FROM DE MAXMIS IS ONSITE.
 - CONFIRMED SURVEY WAS DONE SATURDAY
 - SPOKE ABOUT RELOCATION OF BUOY #5
 TO AREA 2 SECTION 5 WHERE DREDGING
 IS OCCURRING.

1055 MATERIAL BEING DREDGED HAS A VERY
 HIGH SAND CONTENT.

1100 STAN INFORMED ME THAT THE CREW
 WILL BE RETURNING TO AREA 1 TOMORROW.
 THEY HAVE NOT CLEARED THEIR SURVEY YET
 AND WILL THEREFORE NOT BE MOVING
 THE #5 BUOY TO AREA 2 YET.

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1232 DREDGING CONTINUES AS BEFORE. MATERIAL IS MORE CLAY THAN SAND NOW. ESTIMATING 70-80% CLAY.

- SILT SCREEN IS GETTING BLOW OUT. WILL HAVE STAN NOTIFY ROY TO HAVE IT RESECURED ON LAND.

- BARGE IS DRAFTING CLOSE TO 8 FT.

1247 DREDGING HAS PAUSED.

- CONFIRMED WITH STAN ON SATURDAY, WATER LEVEL HAD DROPPED TO FEAR DY 4. NO MORE DREDGING TOOK PLACE THAT DAY.

- CURRENTLY READJUSTING SILT CURTAIN.

- HIGH TIDE IS BACK.

1250 M. PASSARO OFFSITE FOR LUNCH.

1306 M. PASSARO BACK ONSITE - DREDGING HAS RESUMED.

1330 OBSERVED SURVEY BOAT ALONG SHORELINE OF AREA 2.

1420 SCOW DRAFTING APPROXIMATELY 9'. DREDGE UNIT IS RINSING SIDE OF SCOW AND TUG IS COMING UP RIVER TO RELOCATE IT.

1440 John Rolfe WITH DE MAXIMIS ONSITE ASKED ABOUT SURVEY OF AREA 2. SAID HE

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1440 HADN'T HEARD ANYTHING ABOUT THE SURVEY YET. LOW PROFILE SCOW WAS MOVED INTO PLACE.

- RESITUATING SILT CURTAIN.

- DIDN'T START THIS MORNING UNTIL 9:20 BECAUSE OF ISSUES WITH ONE OF THE WINCHES

1505 FROM THE PROCESSING FACILITY.

- 8 WATER TRUCKS

- 29 TOTAL TRUCKS TODAY.

1525 DREDGING ACTIVITY RESUMED.

1555 STAN FROM DEMAXIMS STOPPED BY. STATED HE HAD SEEN PART OF THE COMPLETED SURVEY. GOING TO BE MEETING ONSITE WITH DE MAXIMIS AND HILL TO DISCUSS ROCK OUTCROP ALONG SHORELINE AND BEST COURSE OF ACTION. WILL KNOW WHEN TO BE RECEIVING SURVEY AFTER WEEKLY PROGRESS MEETING.

1622 CHUBBY SCOW IS DRAFTING 5'.

1634 TOOK PICTURES OF SHORELINE FOR FRANK.

1640 M. PASSARO OFFSITE.

Meredith L Passaro 8/26/13

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- 0813 MEETING OVER ROCK OUT CROPPING
- CHRIS - TODD KING : GLDD
 - GARY - HILL
 - JOHN AND STAN WITH DE MAXIMIS
- Cleanup [
- 4+ buckets to get the normal 2' cut.
 - On shoreline 10+ buckets
 - Keeping a smaller silt curtain around Area 1 shoreline. Moving on to Area 2 to keep production up.
 - Land based excavator possibility - ideal.
 - Unsure of the extent of the difficult shoreline. Not just rock but some harder clays too.
 - MADE CALL TO STEPHANIE TO GIVE HER A HEADS UP ON THIS SITUATION.
 - John and Joe Onsite, HILL ATTORNEY AND BOARD MEMBER.
 - Productivity Saturday = 65 yds [JUST SHORELINE]
 - Access issues with the Park - and land.
 - 2 Scows went to Clean Earth but right low profile not full.
- 0855 - Moving Large back down to Area 1 to get a couple of missed spots today
- 0900 - Resituating silt fence. Large scow HAS BEEN MOVED IN PLACE

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- 0925 OBSERVED SHEENS COMING OUT OF SIDES OF THE SHORELINE. SPOKE WITH CHRIS FROM GLDD WHO SAID THEY SEE THE SHEENS ALL THE TIME WHILE DREDGING BETWEEN THE SAND AND CLAY LAYERS.
- 0935 M. PASSARO OFFSITE FOR FIELD
- 0950 M. PASSARO ONSITE AT FIELD OFFICE.
- 1000 WEEKLY PROGRESS MEETING
- FRANK TSANG, JARED BUDNEY, BETH (USACE), GEORGE (HILL), JEFF (HILL), STEPHANIE (EPA), ROY (HILL), JOHN + STAN (DEMAXIMIS), MIKE (EPA), STEVE (CLEAN EARTH), TODD (GLDD).
 - GARY: SEE PROGRESS REPORT
 - JEFF: REPORT ALL SAFETY INCIDENTS
 - GARY: HOS 1-SCHEDULED SAFETY STANDDOWN AT CLEAN EARTH. NEAR MISS WITH PRIVER DRIVING OFF WITH THE TARPING MUDGONE. ALL DRIVERS WILL SHUT ENGINE DOWN WHILE TARPING.
 - WEATHER IMPACTS = LIGHTENING SHUT DOWNS LAST WEEK.
 - SUMMARY: BRIDGES OPERATING ON SCHEDULE. PRODUCTIVITY IMPACTED BY LUNAR TIDES. SCHEDULE HAD TO BE ADJUSTED. COMBINATION

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OF LOW WATER AND RISING WATER BED ELEVATION.

◦ DREDGING IN SHORELINE - HARD PACK MATERIAL.

◦ GLDD PERFORMING SURVEY OF AREA 1.

◦ 6 BARGES PROCESSED BY CLEAN EARTH FACILITY.

◦ 5,664 yd.³ TOTAL DREDGING BASED ON AREA 1 POST DREDGE SURVEY.

◦ 6,610 TONS TO DATE PROCESSED.

◦ NO INTERMODAL CONTAINERS HAVE BEEN UNLOADED AT OKLAHOMA.

◦ APPROVAL TO PROCESS WATER AT BALTIMORE FACILITY.

◦ WATER QUALITY AIR MONITORING - WQ MON. = CONTINUE TO TURBIDITY REAL TIME, NONE

ATTRIBUTED DREDGING ACTIVITY - ~~ARE~~ COLLECTING CSW W/ CAM SMITH THIS WEEK AIR -

NO EXCEEDANCES FOR REAL TIME. CONTINUE TO GET RANDOM H₂S HITS FROM WEATHER

STATION. NO COCURRENT HITS AROUND THE DREDGING. NO ISSUES WITH AIR AND WATER.

◦ EXPECTING ^{COPC} GW RESULTS BACK FIRST WEEK OF SEPTEMBER.

◦ NEED TO GET PRODUCTION TABLE.

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1015 STAN: BRIDGES WILL SOON BE ABLE TO RUN WITH COUNTY PEOPLE ONLY AND NO BACK.

◦ THIS WEEK REVIEW AREA 1 POST SURVEY DATA.

◦ 4T - AREA ALONG THIS SHORE, WILL BE MOVING THE SILT CONTAIN TO AREA 2.

◦ REQUEST FROM NJ MUNICIPALITY HAS BEEN NOTIFIED ABOUT MOVING CLOSER TO THE NO DREDGE ZONE.

◦ WILL CONTINUE TO STABILIZE AND MOBILIZE MATERIAL AT CE FACILITY.

◦ REALISTICALLY WILL GET AREA 1 SURVEY TOMORROW, OR THURSDAY.

◦ 4T - SHORELINE MATERIAL (REFUSAL):

COME UP WITH A PLAN FOR THIS AREA MOVING FORWARD. ENVIRONMENTAL BUCKET IS NOT EQUIPPED TO REMOVE THIS MATERIAL.

◦ STEPHANIE HAS MENTIONED LETTING THE BUCKET - DEANT. NEED TO TALK TO AMY AND FRANK.

◦ TWO BARGES AT CE FOR SATURDAY, WILL BE WORKING ON LABOR.

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1031 • PROPOSED NEW MEETING TIME FOR NEXT WEEK. STAN WILL SEND IT OUT.

• ONGOING COMMUNITY ISSUES WITH THE ROWERS.

• EXPERIENCED SHOPLING IN AREA 1.

• STAN HAS ASKED BLDD AND HELL FOR SOLUTIONS AND A RANKING.

1107 M. PASSARO OFFSITE AND BACK TO RIVERSIDE PARK.

1120 M. PASSARO ONSITE AT RIVERSIDE PARK.

- DREDGING OPERATIONS ARE IN PROGRESS

• MOVED BACK DOWN TO AREA 1 TO CLEAN UP SOME AREAS FROM THIS POST AREA 1 SURVEY.

• CLEAN SEAL IS OBSERVED ONSITE.

• SCOW IS DRAFTING BETWEEN 5.5-6'.

• CYCLE TIME IS BETWEEN 50-60 SECONDS.

• MATERIAL IS MOSTLY SAND AND WATER.
OPEN OBSERVATION OF THE DUMP INTO SCOW.

1200 M. PASSARO OFFSITE TO GRAB LUNCH AND TAKE CARE OF EMAILS AT FIELD TRAILER BEFORE TRANSECT SAMPLING.

1220 M. PASSARO ONSITE AT FIELD OFFICE

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1315 ONSITE AT BOAT LAUNCH WITH ANDY, JAMES, AND STEVE

1316 LEAVING BOAT LAUNCH FOR TRANSECT SAMPLING AT BUOY #1 AND #2

1320 SCOW NOT EVEN DRAFTING 3' FROM BEHIND

1330 - OS1 PLUGGED IN. DEPTH FINDER = 8.65'.

SAMPLES AT 1330. ① Mixed 2 min.
FRESHWATER PH ^{Depth: 8.25' PLUGGED} 8.70 FRESHWATER

23.56 Temp

Turbidity

7.86 DO

.3 Salinity

* THESE PARAMETERS ARE NOT FOR OUR CAMPSITE SAMPLE THIS IS AT BUOY #1.

- TRANSECT AT BUOY #2

LOCATION	FRESHWATER	MIDDLE	NEAR SHORE (AT BUOY #1)
PH	7.67	7.66	7.64
TURBIDITY	9.5	13.8	12.8
TEMP	23.45	23.4	24.03
DO	8.06	7.92	7.89
SALINITY	.3	.30	.30
TIME	1411	1421	1433
DEPTH	8.50	8.05	4.0

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- 1440 DONE WITH SAMPLING. IN RIVER AIR MONITORING STATION IS GETTING MOVED. CURRENTLY IN THE SCOWS WAY WHEN LEAVING THE SITE.
- 1500 BACK ON SITE AT FIELD OFFICE, GETTING PREPPED TO TAKE SPILT SAMPLES.
- 1536 SAMPLED THE FOLLOWING OFF OF THE BUOY #2 TRANSECT:
 SAMPLE ID = CSW-2-130527-C
 SAMPLE ANALYSES: PCDD/PCDF, PCBs, EXTRA VOLUME, Hg TOTAL, Hg DISS, SS/TDS, PC/DOC.
- 1612 GARY OF HILL SAID AROUND 1300 ON THE COUNTY THREATENED TO NOT OPEN THE BRIDGES TONIGHT OR THIS WEEKEND. THE PROBLEM WAS RESOLVED AND THEY AGREED TO OPERATE THE BRIDGE. M. PASSARO LEFT FIELD OFFICE.
- 1630 M. PASSARO ONSITE AT RIVERSIDE PARK. UPON ARRIVAL DREDGING CONTINUES, BUT THE BARGE APPEARS TO BE STUCK. WATER LEVEL IS DROPPING AND TIDE IS GOING OUT.
- SPOKE EARLIER WITH ANDY FROM HILL. AIR SAMPLES WERE COLLECTED FOR Hg TODAY AND SET UP FOR PCB'S.

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- 1640 SCOW IS CURRENTLY DRAFTING ABOUT 7' IN THE FRONT.
- 1648 DREDGE BARGE IS UNSTUCK. OBSERVED DREDGE LETTING WATER DECAINT IN EXCESS OF 10 S. THEY ARE NOT NEAR THE SHORELINE AND HAD A CLEAN SEAL. NOT SURE WHY THEY ARE DOING THIS, HAVE NOT SEEN THIS BEFORE.
- SILT CURTAIN IS BEING RESITUATED.
- 1720 ^{MLP} ~~BEGIN DREDGING AGAIN~~ STILL MOVING BARGE AND RESITUATING SILT SCREEN.
- 1730 M. PASSARO OFF SITE. DREDGING HAD STILL NOT STARTED UP.

Meredith L Passaro
 8/27/13

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0810 M. PASSARO ONSITE AT RIVERSIDE PARK.

- DREDGING OPERATION IN PROGRESS.
- CLEAN SEAL ON BUCKET IS OBSERVED.
- SCOW IS DRAFTING 7'.
- TOOK A LOOK AT SHORELINE IN 4T AS THE TIDE WAS COMING IN. ONCE AGAIN OBSERVED SHEEN ON WATER SURFACE NEAR WATER/LAND INTERFACE. MINIMAL IN SIZE.
- cycle time is between 60-90 seconds.

0900 STAN FROM DEMAXNIS ONSITE.

- FOR SHORELINE, WHAT'S GOING TO BE PROPOSED IS THAT HILL REPACKAGE THEIR SHORELINE ANALYTICAL DATA SHOWING THAT LEVELS ON SHORELINE ARE MINIMAL.
- WILL THEN BACKFILL UP TO GRADE AND PLACE CARBON/GEOTEXTILE CAP ON TOP. THE 12" OF SAND SHOULDN'T BE NECESSARY SINCE CONCENTRATIONS ARE LOW.
- SCOWS ARE BACK FROM CLEAN EXCIT.
- LANDFILL IN OKLAHOMA WANT UNLOAD INTERMODAL CARS - SAYS TOO MUCH WATER. CE WILL LET SEDIMENT SIT AN EXTRA DAY TO DRY OUT.
- ONGOING ISSUES WITH BRIDGES STILL.

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0950 MATERIAL BEING DREDGED IS MOSTLY CLAY.

1040 PMS#2, 3, and 1 ALL IN GOOD CONDITION AND RUNNING. TOP WAS UP AT PMS#. WILL HAVE TO ASK HILL WHEN ONSITE ABOUT IT.

- MOBILE AIR MONITORING STATION IN PLACE
- IN RIVER AIR MONITORING IN PROPER PLACE.

1110 DREDGING HAS STOPPED, SCOW IS DRAFTING APPROXIMATELY 8 FT.

1140 LOW PROFILE SCOW IS BEING MOVED INTO PLACE NEXT TO THE DREDGE BARGE. SKY IS STARTING TO GET DARK. FORECAST CALLED FOR SCATTERED THUNDERSTORMS.

1153 HEARD THUNDER, HAVE NOT SEEN LIGHTNING YET. NO RAIN YET.

1154 STARTING TO RAIN.

1220 M. PASSARO OFFSITE TO FIELD OFFICE.

1310 RECEIVED WORD THAT DREDGING CONTINUES.

1340 NJ RELEASES FLOOD WARNING.

1400 M. PASSARO OFFSITE AT FIELD OFFICE.

1410 M. PASSARO AT PARK.

- AIR MONITORING WAS SHUT DOWN AT 1220 FOR WEATHER.

Meredith L. Passaro

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- 1240 LOW PROFILE SCOW IS DRAFTING 5'.
 1523 DREDGING HAS PAUSED. DREDGE AND SCOW BEING RELOCATED.
 1534 DREDGING BEGINS AGAIN. DREDGE ACTIVITY REMAINS UNCHANGED.
 - GOAL FOR TODAY TO ~~FILL~~^{MLP} FILL ROW PROFILE SCOW.
 - RAIN IS CONSISTENTLY GETTING WORSE.
 1620 RAIN HAS SLOWED DOWN, DREDGING CONTINUES SAME AS BEFORE.
 - SCOW IS DRAFTING 6'.
 - TAYLOR (HILL) ONSITE MAKING AIR MONITORING ROUNDS.
 1635 M. PASSARO OFFSITE, WILL CHECK LOW PROFILE SCOW DRAFT IN MORNING.

~~6/28/13~~

Meredith L. Passaro

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- 0810 M. PASSARO ONSITE AT RIVERSIDE PARK.
 - J. ROFFE OF DE MAXIMIS IS ONSITE
 - LOW PROFILE SCOW IS OFFSITE, MUST HAVE BEEN FILLED. BOTH HIGH PROFILE AND LOW PROFILE SCOW ARE DOWN AT CLEAN EARTH.
 - WEATHER IS 70°F OVERCAST, SCATTERED SHOWERS, HAZY, 0-0 WIND.
 - CURRENTLY ONSITE GLDD IS RESTRUCTURING SILT CURTAIN.
 - HIGH PROFILE SCOW IN USE IS DRAFTING BETWEEN 4-5 FT.
 0910 STAN IS ONSITE AND DISCUSSED THE FOLLOWING:
 - SAW A PRELIMINARY SURVEY OUTLINING ~~7~~ AREAS THAT NEED TO GO BACK TO AND CLEAN UP IN AREA 1.
 - HOPING TO ATTEND TO THOSE AND RELEASE FINAL SURVEY.
 - BUOY #5 WILL BE MOVED TO AREA 2 ONCE SILT CURTAIN IS MOVED.
 - MORE SAMPLING WILL BE CONDUCTED ALONG SHORELINE, CURRENTLY ONLY 3 SAMPLES TAKEN.

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0910 - ALSO WILL NEED TO SAMPLE IN RIVER BEFORE CAP IS BEING PLACED.

0915 DREDGING OPERATION BEGINS FOR THE DAY.

- LOW TIDE @ 10:20.

- CLEAN SEAL OBSERVED ON BUCKET.

- CYCLE TIME RANGES BETWEEN 60-90S.

0930 J. ROLFE AND M. PASSARO OFFSITE TO CE AND RAILYARD.

0948 AT CE FACILITY; 20 SEDIMENT TRUCKS HAVE GONE OUT, 7 WATER TRUCKS.

- LARGE SCOW WAS DEWATERED AND IS BEING UNLOADED DURING LOW TIDE.

- DISCUSSED PUTTING ADDITIONAL PORTLAND ON TOP OF SEDIMENT TRUCK LOADS.

- HILL AND DE MAXIMIS NEED MORE INFORMATION ABOUT WHAT/HOW MUCH WATER IS BEING OBSERVED AT THE LANDFILL.

- WALKED ONTO LOADING DOCKS TO OBSERVE MATERIAL BEING SEALED IN INTERMODAL CARS, NO FREE/STANDING WATER IS VISIBLE. THERE IS A MOISTURE CONTENT OBSERVED.

1050 SIGNED OUT OF CE FACILITY AND WENT TO RAILROAD YARD.

1113 ARRIVED ONSITE AT EPIC RAILYARD

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1113 - LOUIS CASTRO OF EPIC SHOWED US AROUND AND GAVE US SOME BACKGROUND INFORMATION.

- EACH INTERMODAL CAR CAN HOLD 25-26 T OF MATERIAL, EACH RAILCAR CAN HOLD 6 OF THE INTERMODAL CARS ON IT.

- THEY HAVE HAD NO PROBLEMS LOADING THE INTERMODAL CARS ONTO RAILCARS AND LOAD THEM LIVE WHEN THEY ARRIVE ONSITE.

1130 LEFT EPIC RAILYARD.

1150 BACK ONSITE AT RIVERSIDE PARK.

- DREDGE BARGE AND SCOW HAVE MOVED FURTHER OUT INTO THE RIVER SILT CURTAIN IS IN PLACE.

- DREDGING IS IN PROGRESS. HIGH PROFILE SCOW IS DRAFTING BETWEEN 5.5-6 FT.

- WENT TO TRY TO SEE IF SHEENS WERE AT WATER'S EDGE IN 4T, ONCE AGAIN OBSERVED MINIMAL SHEENS AS TIDE CAME IN.

1400 DREDGING HAS STOPPED. BARGE IS DRAFTING 7'.

- BARGE AND SCOW ARE MOVING BACK DOWN INTO AREA 1. POSSIBLY TO WORK ON AREAS MISSED AND ID'D IN SURVEY.

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1430 DREDGING RESUMES

- RAN INTO TAYLOR (HILL) CONFIRMED THAT PCB SAMPLES WERE COLLECTED YESTERDAY DESPITE WEATHER AND DIOXIN DEPLOYED. TODAY DIOXIN WAS COLLECTED AND Hg AND PM10 DEPLOYED ALL ON A 24-HOUR ROTATION AT ALL STATIONS ~~AND~~ REST OF JOB.
- PMS #1, 2, 3 IN GOOD CONDITION AND RUNNING.
- WEATHER STATION IN GOOD CONDITION AND MOBILE/IN RIVER AIR MONITORING STATIONS IN PROPER PLACE.

1511 DREDGING OPERATION HAS PAUSED. DREDGE BARGE AND SCOW ARE BEING RELOCATED TO AREA 1.

1525 SCOW^{M/P} DREDGING ACTIVITY BEGINS. SCOW IS DRAFTING 8'. DREDGING WILL CONTINUE UNTIL DRAFTING 9'.

1600 M. PASSARO OFFSITE TO FIELD OFFICE TO DROP OFF EQUIPMENT FOR BEN HAMMOND.
- I MEREDITH PASSARO HAND OVER THIS FIELD NOTEBOOK TO BEN HAMMOND

X. By handMessitt / Passaro 8/29/13Location LPR RM 10.9 Date 8/30/13Project / Client USACE - RM 10.9 OversightBayan Hamid page 1 of 3

0815 B Hammond on site at Riverside Park

Weather: 75° cloudy

- dredging has resumed in area 1 just south of no-dredge zone, near shore
- all 3 scows at RM 10.9 today - 1 high-pro full, 1 high-pro empty, and the low-profile (currently being filled)
- low-profile drafting 4.5-5'

0900 Conversation with John Rife (dm)
- per Roy (CH2M), GLDD are cleaning up the 5 and 6T portions of area 1, which may take today and tomorrow as access to the shoreline is tide-dependent

- as we start working near the 72" marks, United Water has been notified and they will have people over here checking things out periodically. 30' offset bouys are out of place but

LPR RM 10.9

8/30/13

USACE - RM 10.9 Oversight

Bye Hand

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Roy understands the location based on shoreline markings

- the Area 1 survey is still pending approval; John mentioned the possibility of a tentative approval that would allow GLDD to continue into Area 2 and return to Area 1 later.
- resolution for rock refusal issue remains undecided as well and will be a matter of EPA approval - Sampling may simply be performed around the unexcavated rock
- JR notes that work at CE is unlikely tomorrow.

1045 GLDD adjust silt ~~form~~^{BH} curtain and move barge/scow ~30 yds south to work near shoreline in another as-yet-incomplete area

- dredge cycles 50-60 sec.
- bucket operating w/ good seal
- only ~1 yd³ in each bucket
- few visible turb. plumes

LPR RM 10.9

8/30/13

USACE - RM 10.9 Oversight

Bye Hand

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1150 air monitoring stations PMS 1, 2, 3

and in-river station appear

functional and properly positioned

- appear to be collecting PCB comp. samples; will confirm

1400 Nearing high tide

- scow/barge moved closer to shore

1500 low profile filled (drafting 9 ft)

- moored alongside the two high-profile scows

1530 GLDD observed working on silt curtains

- pulled some sections from river and folded others up
- opening some new curtain on the barge - to be installed tomorrow?

1630 GLDD observed cleaning up for today - will return tomorrow

- to see result of silt curtain work
- BH off site

Bye Hand
8/30/13

Location LPR RM 10.9 Date 8/31/13Project / Client USACE - RM 10.9 oversight
Bryan Hill page 1 of 3

0810 BH on-site at Riverside Park
 weather 70° F, cloudy
 - one empty scow (high-profile)
 moored north of dredge area
 - other two have gone to CE
 - GLDD observed working on silt curtain

0900 per James (CH2M Hill) GLDD is
 expected to resume dredging at
 1030-1100

- noted that tide is low, and coming in.
 - 24-hr PCB samples being
 collected, no samples deployed
 today. real-time monitoring of
 dust, H₂S and VOCs is ongoing and
 all stations appear in working order

1100 GLDD still working on
 deploying silt curtain. most is
 new. Appear to be installing still
 in Area I but slightly further
 north. Called Stan K. to
 touch base re: today's activities.
 Awaiting return call.

1145 Spoke with Stan K on phone

Location CPR RM 10.9 Date 8/31/13Project / Client USACE - RM 10.9 oversight
Bryan Hill page 2 of 3

Stan is at the Bridge. St
 bridge, where there were issues
 last night. They opened it to
 let the scows through but could not
 close it. It is closed now.

- He said that they should be dredging
 in Area 1 still, today.

1200 GLDD still installing/moving silt
 curtain. Had to move dredge
 barge out and around to get inside
 of curtain.

1300 High-profile scow moved into place
 - Dredging resumes
 - dredge cycles ~60 seconds
 - Silt curtain is well-positioned
 - lots of water being loaded
 into scow

1345 Conversation on-site w/ Stan K.
 - unsure when Bridge St. will
 be operational - could have
 significant effect on sched. this
 week.

1600 GLDD observed cleaning
 side of scow, done for day

110

Location LPR RM 10.9 Date 8/31/13Project / Client USACE - RM 10.9 Oversight
Burkhead page 3 of 3

1600 Per Stan, they will move the dredge barge out of the silt curtain area now and may spend the next day on-site performing Area 1 survey and moving silt curtain from the finished portion of Area 1 to Area 2

- Stan will update the group in regard to Bridge St as it pertains to the schedule this week

1615 BH off site

- field notebook relinquished to M Passaro

X

Burkhead
8/31/2013

Location LPR RM 10.9 Date 9/3/2013Project / Client USACE - RM 10.9 Oversight
Burkhead page 1 of 1

1100 Ben Hammond on site for EPA at Riverside Park

Weather: 75° F, Sunny

- GLDP dredging in Area 2
- *Note Field notebook retrieved by BH, not tampered with.

BH retains custody of field book

- dredge cycles 45 to 60 seconds
- dredging near shoeline, some debris

1115 per S. Kaczmarek, there will be upriver movement of 2 empty scows tonight, dredging to continue tomorrow

1200 Dioxin analysis deployed today

1300 high-profile scow is filled, drifting at 9 feet

- BH off site

Burkhead
9/3/13

Location CPR RM 10.9 Date 9/4/13

Project / Client USACE - RM 10.9 Oversight

Bryland page 1

0830 BH on site at Riverside Park

Weather 68°F, Sunny

- appears to have been no upriver scum movement overnight, as there is still only the 1 full scum here
- No activity on barge
- Composite air samples still running, either yesterday's dozen samples or new PCB samples
- weather station, air monitoring stations are in place and unimpacted with.

0915 BH to Field Office

1000 Weekly progress meeting

- 2 minor incidents on barge (H&S)
- this morning an individual out

rowing fell into the river and had to

cling to silt curtain until help came

- Area I survey is accepted w/ exception of cut YP along shoreline
- Bridge St. br. not operable
- GLDD have secured a YH barge
- last week 6 barges were unloaded at CE
- Discussed standing water found in trucks of stabilized material upon arrival.

Location CPR RM 10.9 Date 9/4/13

Project / Client USACE - RM 10.9 Oversight

Bryland page 2

- cause/ source unknown, as they are very dry when they leave CE
- 8,000 yd³ mat'l dredged to date
- 582,000 gallons H₂O to date processed at CE
- Air and WQ monitoring
- correlation of turb. and TSS has been established
- no trigger levels ^{BH} reached
- ^{BH} North Southern air monitoring station will be moved North
- H₂S triggers near weather station are caused by sewer line
- Coast Guard has been notified re: Bridge. No response yet.

1130 Mike Hoppe (EPA) has corresponded with the Coast Guard and is seeking their judgment - they have regulatory authority to maintain open waterways and will consider the nature of the bridge failure

1200 BH off site for lunch

1245 BH to Field Office

1330 Coast Guard has sent letter to

Location LPR RM 10.9 Date 9/4/13Project / Client USACE - RM 10.9 oversightBrylund

page 3 of 4

Hudson County stating that bridge should be opened unless a satisfactory response is ~~not~~^{is} received explaining why it should not be left open

1345 conversation b/w Mike and

Jen Wilkie (CH2M) re: reduction in COPC sample collection

- CH2M will propose reduction formally, could be to 3 samples/wk
- need to address transects 2800 to 21+00, where intense monitoring is req'd per section 3.3 of air monitoring plan

1500 BH on site at Riverside Park - with Jen Wilkie (CH2M) to investigate refusal area and find so Jen could ~~the~~ propose means of sampling this area

1545 Jen believes there is enough sediment in refusal area to collect samples; will propose to EPA/CDM Smith

1600 BH off site, back to field office

~~1630~~^{1630 BH} BH leaving field book at field office.

Location LPR RM 10.9 Date 9/4/13Project / Client USACE - RM 10.9 oversightBrylund

1730 Field book may be retained by BH or relinquished to Meredith

Passaro depending on dredging activity
- relinquished 9/4/13 1730
X Meredith & Passaro 9/19/13

BH off site

Brylund 9/4/2013

Location LPR RM 10.9 Date 9/19/13

Project / Client USACE - RM 10.9 OVERSIGHT

Meredith L Passaro

PAGE 1 OF 5

0745 M. PASSARO ONSITE AT FIELD OFFICE, RELINQUISHED FIELD NOTEBOOK. TRAVELING TO RIVERSIDE PARK.

0801 M. PASSARO ONSITE AT RIVERSIDE PARK.

- WEATHER: SUNNY, CLEAR, 53°F, WIND = 0 mph
- LOW PROFILE SCOW "CHUBBY" AND HIGH PROFILE SCOW ARE BOTH MOORED IN RIVER, NEWLY ACQUIRED LOW PROFILE SCOW IS NEXT TO DREDGE UNIT, NAMED "STYMIE"
- SILT CURTAIN IS IN PLACE AND WILL NEED TO DOUBLE CHECK WITH STAN THAT BODY #5 HAS BE APPROPRIATELY MOVED. OBSERVING THAT BODY #5 IS AT BOTTOM OF SILT CURTAIN.

- DREDGING HAS NOT STARTED YET, GLDD IS FINALIZING PLACEMENT OF "STYMIE"

0840 DREDGING OPERATION BEGINS

- STYMIE IS DRAFTING \approx 4 ft.
- FIRST FEW BUCKETS ARE MOSTLY TRASH AND CONSTRUCTION DEBRIS, AS PREVIOUSLY SEEN ON SHORELINE
- Cycle TIMES RANGE FROM 60-70 S.
- SEAL ON BUCKETS IS NOT GREAT DUE TO DEBRIS BUT MOSTLY LOSING WATER.

Location LPR RM 10.9 Date 9/19/13

Project / Client USACE - RM 10.9 OVERSIGHT

Meredith L Passaro

PAGE 2 OF 5

0900 SILT CURTAIN KEEPS MIGRATING OFF THE SIDE OF THE SCOW. GLDD IS NOW SECURING IT WITH ROPE.

0920 OBSERVED A ^{ANNOYING} PEB^{MY} ODOR AND ALSO SHEENS ON THE WATER DREDGE UNIT WAS DREDGING NEXT TO WEATHER STATION. SHEENS AND ODOR WERE MINIMAL AND NOT SUSTAINED. NOTIFIED AMY PICONAS, SHARON BUDNEY AND STAN OF DEMAXIMIS BY PHONE.

0950 J. ROLFE ONSIGHT FROM DEMAXIMIS, SHEENS ON WATER ARE MUCH SMALLER IN SIZE AND NO ODOR IS OBSERVED AS MOVING DOWN THE RIVER.

1010 J. ROLFE INFORMED THAT AIR SAMPLING WILL HOPEFULLY BEGIN ON MONDAY BUT IS NOT TAKING PLACE DUE TO THE LAST MINUTE START TIME OF THE PROJECT.

- CONFIRMED BODY #5 WAS AT END OF THE SILT CURTAIN.

1055 ANDY FROM HILL ONSITE AND DEPLOYED PCB AIR SAMPLE IN RESTANCE TO ODOR THIS MORNING.

Location LPR RM 10.9 Date 9/19/13Project / Client USACE - RM 10.9 OVERSIGHT
Muditt & Passaro PAGE 3 of 5

1110 STAN FROM DEMAXIMIS IS ONSITE.
AN AIR MONITOR IS BEING PLACED ONSITE
AND PCB-24 HOUR SAMPLE STARTED THERE
IS A BOOM READY TO BE DEPLOYED IF
LARGER SHEENS CONTINUE. THESE ARE
IN RESPONSE TO MORNING OBSERVATIONS.

1130 PMS #3 → NO AIR MONITORING. ^{NO FUEL SOURCE}

PMS #2 → NO LONGER ONSITE, HAS
BEEN MOVED TO THE NORTHERN MOST
BALL FIELD. AIR-MONITORING IS ON.

MOBILE UNIT → NOT IN PARK.

PMS #1 → PCB-24 HOUR.

WEATHER STATION → CAN'T TELL IF AIR
MONITORING UNIT IS ON IN WEATHER
STATION. → ON - CONFIRMED ✓ STAN

- ROY FROM HILL HAS MOVED HIS @ 1140
BOAT DOWNSTREAM TO WATCH FOR
SHEENS.

1220 M. PASSARO OFFSITE FOR LUNCH.

1250 M. PASSARO BACK ONSITE

- SILT CURTAIN WAS STUCK IN CLAMSHELL,
OPERATOR WAS ABLE TO RELEASE CONTENTS
IN SECO. WILL NEED TO CHECK IF
THE CURTAIN WAS DAMAGED

Location LPR RM 10.9 Date 9/19/13Project / Client USACE - RM 10.9 OVERSIGHT
Muditt & Passaro PAGE 4 of 5

1310 SPOKE WITH STAN ABOUT AIR MONITORING.
THEY STOPPED COPL SAMPLING WHEN
DREDGING STOPPED. CONTINUOUS AIR
MONITORING WAS IN PLACE ADJACENT TO
THE BARGE IN WATER. JEN WILKIE WILL
BE ON SITE IN THE MORNING TO KICK
START ALL SAMPLING. MOBILE AIR
MONITORING STATION IS NOT ONSITE,
THERE IS AN AIR-MONITORING UNIT
DIRECTLY NEXT TO DREDGING. THIS WHY
THE MOBILE UNIT IS NOT ONSITE, STAN
HAS ASKED THAT WE CONFIRM WHETHER
IT NEEDS TO BE PLACED ONSITE OR NOT.
DREDGING WILL STOP TODAY AT 2 O'CLOCK.
- SCOW IS DRAFTING AT APPROXIMATELY
8 FT. BARGE IS ALMOST FULL.

- MATERIAL IN THIS AREA IS DIFFERENT,
BLACK WITH COHESION. ORANGE MATERIAL

1400 STAN OF DEMAXIMIS INFORMED ME THAT
HE WAS MISTAKEN AND DREDGING WILL
CONTINUE TODAY PAST TWO. HE ASKED ABOUT
THE MOBILE STATION AND IT WILL BE
PUT IN PLACE TOMORROW MORNING.
- TIDE IS LOW.

Location LPR - RM 10.9 Date 9/19/13Project / Client USACE - RM 10.9 OVERSIGHTMeadell X Passaro PAGE 5 of 5

1421 LOW TIDE AND GLDD HAS UNCOVERED
A LARGE OBJECT IN THE MUD FLAT. IT LOOKS
TO BE EITHER SOME PART OF AN OLD WALL
OR POSSIBLY AN OLD TANK.

1547 SCOW IS COMPLETELY FULL AND IS
DRAFTING 8' ON ALL SIDES. GLDD
HAS STARTED WASHING SCOW.

1600 DREDGING HAS STOPPED. M. PASSARO IS
OFFSITE.

~~Meadell X Passaro~~
9/19/13

Location LPR - RM 10.9 Date 9/20/13Project / Client USACE - RM 10.9 OVERSIGHTMeadell X Passaro PAGE 1 of 4

0810 M. PASSARO ONSITE. DREDGING HAS NOT
STARTED YET.

- LOW PROFILE SCOW STYMIE AND HIGH
PROFILE SCOW ARE NOT ONSITE. CHURBY
IS NEXT TO DREDGE UNIT.

- SILT SCREEN NEEDS TO BE READJUSTED.

0820 MOBILE AIR MONITORING STATION IS IN
PLACE IN THE PARK. JEN WILKIE, STAN,
AND ANDY ARE ALL ONSITE.

0830 SPOKE WITH JEN WILKIE. ALL SAMPLING AND
MONITORING EQUIPMENT IS BEING SET UP
AND CALIBRATED. CONFIRMED IN-RIVER UNIT
IS IN THE RIVER AND WAS RUNNING, IT
WILL BE RECALIBRATED. ALSO IT IS CURRENTLY
LOCATED ~~DOWNSTREAM~~^{UP} DOWNGRADIENT FROM
THE DREDGING. ANDY SAID THIS WAS DUE TO
NAVIGATION ISSUES WITH PLACING THE UNIT
UPGRADIENT AS IT SHOULD BE. THIS WILL NEED
FURTHER DISCUSSION AND CONFIRMATION.

- MOBILE UNIT HAS BEEN PLACED IN THE PARK
FOR ADDITIONAL AIR MONITORING.

0850 DREDGING BEGINS

- BARGE IS DRAFTING BETWEEN 3-4 FT. HARD
TO TELL, SCALE IS NOT VISIBLE.

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Project / Client USACE - RM 10.9 OVERSIGHT

Meredith X Passaro

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0850 - WEATHER TODAY: CLEAR, SUNNY, 64-66°F, WIND=0 mph
 - MATERIAL IN BUCKETS IS MOSTLY TRASH AND CONSTRUCTION DEBRIS. GOLD SEAL IS NOT OBTAINED WITH THIS MATERIAL.

- CYCLE TIMES RANGE FROM 60-90 SECONDS.

0915 J. ROLFE ONSITE. JUST VISITED CLEAN GRATH.

- ONE SCOW WAS DEWATERED AND WAS READY TO BE UNLOADED. NO OTHER ACTIVITY IS GOING ON. NO WATER OR SEDIMENT TRUCKS ARE GOING OUT.

- NO OILS OR SHEENS OBSERVED.

1000 CONDUCTED WALK THROUGH OF AIR MONITORING EQUIPMENT =

- MOBILE UNIT, GOOD CONDITION AND RUNNING.

- PMS #3 STILL NOT ON, NEED TO TALK TO JEN.

- IN RIVER UNIT IS IN PLACE.

- PMS #2 RUNNING AND IN GOOD CONDITION, DOESN'T SOUND AS IF COPE SAMPLE IS RUNNING.

- PMS #1 RUNNING AND IN GOOD CONDITION.

1048 M. HOPPE FROM EPA IS ONSITE.

1230 WASHING SIDE OF DREDGE BARGE. DRAFTING APPROX 7' STAN AND DOWN OF DE MEANIS ONSITE. BARGE IS MOVING.

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Meredith X Passaro

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1240 MIKE INFORMED THAT IF DREDGING IS COMPLETE ~~BEFORE~~^{MLP} BY LATE SEPTEMBER/EARLY OCTOBER THEN NO MORE SPLIT SAMPLING NEEDS TO TAKE PLACE. THIS IS DUE TO THE FACT THAT POTENTIAL SEASONAL CHANGES IN THE RIVER WILL NOT NEED TO BE ACCOUNTED FOR.

- DREDGING BEGINS CLOSE TO SHORE.

1245 M. PASSARO AND M. HOPPE OFFSITE FOR LUNCH.

1300 M. PASSARO ONSITE AT FIELD OFFICE.

- SPOKE WITH JEN WILKE. PMS #3 HAS HAD ISSUES SINCE THE ELECTRICITY WAS SHUT DOWN THIS PAST WEEK. ELECTRICIAN IS CALLED AND WOULDN'T COME OUT UNTIL THE AFTERNOON. HOPING TO BE UP AND RUNNING BY 1430. OTHER THAN THAT SHE CONFIRMED THAT ALL OTHER UNITS ARE UP AND RUNNING FULL ^{OR} SAMPLING SUITE.

- TOOK SAFETY VIDEO TO GO OUT ON DREDGE BARGE.

1400 M. PASSARO BACK ONSITE AT RIVERSIDE PARK.

- J. ROLFE IS ONSITE. BARGE IS CURRENTLY

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- 1400 BEING MOVED.
- TIDE IS CONTINUING TO GET LOW.
- 1407 DREDGING OPERATION CONTINUES.
- 1500 M. HOPPE LEAVES SITE FOR THE DAY.
- 1522 SCOW IS DRAFTING 8-8.5 FT IN FRONT END. STILL CONTINUING TO DREDGE.
- 1536 WASHING SIDE OF BARGE DREDGING IS DONE FOR THE DAY. SCOW IS FULL
- STAN ONSITE, WORKING SUNDAY IS STILL UP IN THE AIR. SCOW DRAFTING 8.5-9 ft.
- 1543 PMS #3 IS BACK ONLINE.
- 1545 M. PASSARO IS OFFSITE FOR THE DAY.

Location LPR - RM 10.9 Date 9/21/13Project / Client USACE - RM 10.9 OVERSIGHTMeredith L Passaro PAGE 1 of 1

- 0940 M. PASSARO IS ONSITE. DREDGING OPERATION IS IN PROGRESS. HIGH TIDE
TO WEATHER: PARTLY CLOUDY, 65°F, WIND = 0 mph
- CURRENTLY DREDGING INTO LOW PROFILE SCOW "STYMIE". SCOW IS DRAFTING APPROXIMATELY 5.5-6 ft.
- CONFIRMED WITH ROY FROM HILL THAT DREDGING BEGAN AT 0825 THIS MORNING AND THAT "STYMIE" WAS RETURNED WITH MATERIAL STILL IN IT FROM CLEAN EARTH.
- 1010 DREDGING HAS PAUSED IN ORDER TO FUEL UP EQUIPMENT.
- 1015 SPOKE WITH JOE (HILL), SAID JEN HAD JUST FINISHED SWITCHING OUT THE SAMPLES IN THE AIR-MONITORING STATIONS.
- PMS #3 IN GOOD CONDITION AND RUNNING
- IN-RIVER UNIT IS DOWNGRADIENT STILL, BUT IS RUNNING
- MOBILE UNIT IS IN PLACE AND IN GOOD CONDITIONS.
- PMS #2 IN GOOD CONDITION AND RUNNING
- PMS #1 IN GOOD CONDITION AND RUNNING
- LOGGING STATION IN GOOD CONDITION AND RUNNING
- 1103 DREDGING IS STARTING TO BEGIN AGAIN

Location LRR - Rm 10.9 Date 9/21/13Project / Client USACE - Rm 10.9 - OVERSIGHTMeredith X Passaro PAGE 2 of

- 1103 "CHUBBY" IS STILL ONSITE. STAN (DE MAXIMUS) IS ONSITE.
- 1105 M. PASSARO AND STAN LEAVE RIVERSIDE PARK FOR BOAT DOCK.
- ROY IS TAKING US OUT ONTO THE BARGE.
- 1120 ON RIVER BARGE, MET WITH TOAD KING (GD)
- WATCHED THE REALTIME MONITORING OF THE DREDGE CUTS. CURRENTLY IN CUT 9.
- OBSERVED DREDGE OPERATIONS WHILE ON BARGE. ALL WORKERS HAD ON PROPER PPE. WORKSPACE IS SAFELY MAINTAINED AND WE WERE NOT ALLOWED ON BARGE WITHOUT CONFIRMING WE HAD SEEN THE SAFETY VIDEO.
- 1210 BACK ONSITE AT RIVERSIDE PARK.
- 1230 JEN WILKIE (HILL) ONSITE DOING MAINTENANCE ON SAMPLING EQUIPMENT.
- 1240 DREDGING HAS STOPPED.
- 1243 DREDGING RESUMES ON SHORELINE.
- 1255 DREDGE UNIT MOVED FURTHER INTO RIVER, TIDE IS STARTING TO MOVE OUT.
- 1305 DREDGING BEGINS AGAIN.
- 1336 M. PASSARO OFFSITE FOR LUNCH, BARGE IS DRAFTING 8-8.5 FT. ALREADY.

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- 1400 M. PASSARO BACK ONSITE AT RIVERSIDE PARK. DREDGING HAS STOPPED.
- 1406 DREDGING ACTIVITIES BEGIN AGAIN.
- GOOD SEAL AND GOOD RECOVERY IS OBSERVED.
- 1445 SCOW IS CURRENTLY DRAFTING $\approx 9'$. DREDGE ACTIVITIES ARE STILL IN PROGRESS.
- 1456 DREDGE OPERATOR IS WASHING SIDE OF SCOW OFF.
- TRYING TO USE ARM OF CLAMSHELL TO MOVE BARGE AND SCOW DEEPER INTO THE RIVER.
- SCOW IS DRAFTING JUST UNDER 9 FT.
- 1518 CREW IS MEASURING PERIMETER OF SLOW DOWN TO MATERIAL.
- 1524 FULL "STYMIE" SCOW IS BEING CHANGED OUT WITH THE HIGH PROFILE SCOW.
- SPOKE WITH ROY, GDD PLANS ON CONTINUING TO DREDGE TODAY INTO THE HIGH PROFILE SCOW.
- 1542 DREDGING BEGINS WITH HIGH PROFILE SCOW. SCOW IS DRAFTING ≈ 3.25 FT.
- 1612 STAN (DE MAXIMUS) IS ONSITE AND STATED DREDGING WILL CONTINUE UNTIL 1700-1730 TODAY.
- 1645 M. PASSARO OFFSITE. SCOW DRAFTING 4.5 FT.

Meredith X Passaro 9/21/13

Location LPR - RM 10.9

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Project / Client USACE - RM 10.9 OVERSIGHT

Meredith L. Passaro

PAGE 1 of 2

- 0940 M. PASSARO ONSITE. J. ROLFE (de maximis) IS ONSITE. HIGH PROFILE SCOW IS DRAFTING \approx 6 ft.
- DREDGE OPERATION IS IN PROGRESS.
 - AREA NEXT TO BOAT LAUNCH IS BEING SURVEYED.
 - CONFIRMED DREDGING STOPPED AT 1700 YESTERDAY.
 - CYCLE TIMES RANGE FROM 60 - 70 SECONDS.
 - NO ODORS OBSERVED.
 - BOTH STUMIE AND CHUBBY ARE NO LONGER ONSITE.
 - WEATHER: CLEAR, 65°F, WIND = NW @ 5 mph.
 - High Tide

1128 AIR MONITORING INSPECTION:

- PMS #2 EQUIPMENT IN GOOD CONDITION. ~~WARNING~~
 - SPIDER OR SOME KIND OF BUG IN TOP OF AIR MONITORING EQUIPMENT.
 - JEN ON SITE, SAID BUG ISN'T A BIG DEAL AND COLLECTED A 20 HOUR SAMPLE.
 - PMS #1 IN GOOD CONDITION, RUNNING. (SAMPLING EVERY MIN)
 - IN AICE UNIT IS UPWIND.
 - MOBILE UNIT IS IN PARK, GOOD CONDITION.
 - PMS #3 GOOD CONDITION AND RUNNING.
- 1147 HIGH PROFILE SCOW IS DRAFTING \approx 7'
- ALL PMS UNITS RAN DIXONS YESTERDAY

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Meredith L. Passaro

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- 1147 - ALL PMS STATIONS WILL START ^{ROTATION} DAILY TODAY WITH MERCURY, PM #10.
- 1155 J. ROLFE OFFSITE
- OBSERVING JEN SWITCH OUT SAMPLE AT PMS #1.
- 1220 DREDGING HAS PAUSED.
- 1300 DREDGING HAS RESUMED AGAIN. J. ROLFE BACK ONSITE.
- SCOW IS DRAFTING \approx 7 - 7.5 ft.
- 1351 BUOYS BEING DEPLOYED IN NO DREDGE ZONE.
- SCOW IS DRAFTING 7.5 - 8 ft.
- 1434 WASHING SIDE OF SCOW DRAFTING \approx 9 ft. - 8.5 ft.
- CONFIRMED WITH ROY DREDGING IS COMPLETE FOR THE DAY.
- 1440 M. PASSARO IS OFFSITE

[A large handwritten 'X' is drawn across the bottom half of the page, with the date '9/22/13' written diagonally across it.]

Location LPR - RM 10.9 Date 9/23/13

Project / Client USACE - RM 10.9 - OVERSIGHT

Mendell L Passaro PAGE 1 of 3

- 0940 M. PASSARO ONSITE. DREDGING OPERATION IN PROGRESS ROY (HILL) → DREDGE START 0830.
- HIGH PROFILE SCOW FROM YESTERDAY IS ANCHORED IN RIVER. OTHER HIGH PROFILE SCOW IS CURRENTLY BEING DREDGED INTO, WHICH WAS BROUGHT UP LAST NIGHT. CURRENTLY DRAFTING 3.5 FT.
 - NO COORS OR SHEEN IS OBSERVED.
 - Cycle times RANGE FROM 60-70 SECONDS.
- 1036 SPOKE WITH JEN (HILL) TRANSECT SAMPLING WILL BE TAKING PLACE ON WEDNESDAY.
- 1132 CONDUCTED SITE WALK OF AIR MONITORING:
- PM3#2: EQUIPMENT GOOD CONDITION, SAMPLE RUNNING FOR EITHER PCB'S/DIOXIN.
 - PM3#1: EQUIPMENT IS IN GOOD SHAPE RUNNING. A SAMPLE FOR EITHER PCB'S/DIOXIN.
 - WEATHER STATION: GOOD CONDITION.
 - MOBILE UNIT: IN PLACE IN PARK, GOOD CONDITION.
 - PM3#3: EQUIPMENT IN GOOD CONDITION. RUNNING EITHER RE/OX DIOXIN.
 - IN RIVER UNIT IS UPWIND RUNNING SAMPLE.
- 1200 M. PASSARO OFFSITE FOR LUNCH. SCOW IS DRAFTING \approx 6 FT. JOE (HILL DC) IS ONSITE.

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Mendell L Passaro PAGE 2 of 3

- 1300 M. PASSARO BACK ONSITE AT RIVERSIDE PARK. J. ROLFE IS ONSITE.
- STOPPED AT ~~RIVERSIDE~~^{MLP} FIELD OFFICE. TOUCHED BASE WITH JEN, PCB'S WERE DEPLOYED TODAY. TRASECT SAMPLING WILL BE ON WEDNESDAY AT 7 AM, WILL ONLY BE COLLECTING COMPOSITE SAMPLES AND NO GRAB.
 - TOUCHED BASE WITH AECOM. THEY WILL NOT START SAMPLING UNTIL TOMORROW.
 - 2 SETS OF BOTTLEWARE STILL IN FIELD OFFICE.
- 1310 OBSERVED AECOM BOAT OUT ON RIVER. J. ROLFE INFORMED ME THAT ON SATURDAY 622 CY OF MATERIAL WAS DREDGED.
- 1325 UPDATE FROM CLEAN EARTH FACILITY:
- 8 WATER TRUCKS WENT OUT.
 - PROCESSED ONE OF THE LOW PROFILE SCOWS AND DEWATERING THE SECOND.
- 1423 SCOW IS DRAFTING 7-7.5 FT.
- 1500 J. ROLFE IS OFFSITE.
- 1530 STAN (de MONTAIGNE) IS BRIEFLY ONSITE.
- 1600 DREDGE OPERATOR IS WASHING OFF SIDE OF THE SCOW. SCOW IS DRAFTING \approx 9 FT. CREW MEMBERS ARE MEASURING DOWN TO MATERIAL.

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~~Meadell & Passaro~~

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1605

DREDGING IS COMPLETED FOR THE DAY.

M. PASSARO OFFSITE TO DROP OFF FIELD

NOTEBOOK AND PFD

X RELINQUISHED 9/23/13 1610

X ~~Benjamin~~ 9/24/13 0850

Benjamin Hammond

Location LPR - RM 10.9

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~~Benjamin~~

page 1

0900 BH on site at Riverside Park

- dredging is under way approx. 50 yds south of boat launch
- dredge cycles are long (~2 mins) - mostly due to issues with machine? or silt curtain adjustment
- both high-profile screws are full and low-profile screws are nearly empty

0930 Sheen observed on water near boat launch - mentioned to Stan. He said we have been seeing this frequently in the morning and it may have to do with this area being the previous location of a marina (?) It should disappear later in the day.

0950 Spoke w/ Jan + Dorian (CH2M Hill) they will be collecting PCB samples this morning and deploying Dioxin samples

- weather: 55° F, sunny

0945 BH to Field Office for 10AM meeting. Will return to park later this morning.

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 Project / Client USACE - RM 10.9 oversight
Bethel

1000

- weekly progress meeting in Rutherford
- Stan John (dm) Jen, Gary, Joe (Hill), Mike (EPA) in attendance
 - Several others on phone.
 - overview of progress
 - 10,500 cu dredged to date, away to be done by 10/2
 - review of air/water monitoring
 - * points of interest
 - Mike confirmed verbally that CQPC air monitoring can be reduced to 1 cycle/week, meaning that today's samples are the last ones this week
 - there is confusion over whether SSC sampling is done entirely (as thought by dm/Hill) or just for the time being (as implied by S. Vaughn). They will discuss.
 - S. Vaughn expressed concern over not yet receiving a sampling plan for the hard-packed/rock area in Area E. She said that there is a risk that dredging could "finish" with this area not yet cleared.

Location LPR - RM 10.9 Date 9/24/13
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Bethel

- dm/Hill's reaction seems to be that this area cannot be dredged regardless of sample results. Rather than sampling, they seem keen on submitting a capping plan for this area.
 - per Todd King (GIDD) they are at 23+10 now and moving 35'-70' per day.
 - Discussion between dm/Hill and Mike about whether a silt curtain is needed during capping.
- 1100 BH return to park
- dredging ongoing
 - walkthrough of air monitoring station
 - PMS #3 running (Dioxins) and in good condition
 - mobilize UAT running (real-time) and in good condition, demand of dredging
 - PMS #2 running (Dioxins/real time)
 - PMS #1 running (Dioxins/real time)
- 1400 "Chubby" screw filled and moved slightly downstream
- "Stymie" moved into place

Location LPR - RM 10.9 Date 9/24/13

Project / Client USACE - RM 10.9 oversight

By Hand

- 1500 Dredge cycles 60-90 seconds
- good sed, some decanting
 - spoke w/ Stan, they will continue dredging for the next few hours

- 1700 "Stymie" drifting at 5 feet
- will check tomorrow to see how much more dredging occurred today

1715 BH off site

By Hand
9/24/2013

Location LPR - RM 10.9 Date 9/25/13

Project / Client USACE - RM 10.9 oversight

By Hand

- 0700 Ben Hammond on site at boat launch

- weather: 50°F, some clouds
- on boat with Jeff, Andy, Dorian (CH2M Hill) to observe transect water sampling

- 0745 arrived at Bury 1
- filled composite container (21L)
 - West → Center → east

0830 arrived at Bay 2

	time	4m	PLT	temp	temp	DO	sed	depth
West	0842	7.75	17.34	5.3	8.81	0.3	4.2	
Center	0852	7.05	17.40	5.6	8.86	0.3	4.44	
East	0903	7.74	17.46	7.7	8.81	0.3	4.1	

- filled composite container (21L)

- 0910 arrived at Bury 3
- filled composite container (21L)

- ~0940 received word that dredging won't begin until ~1100
- these composites are no good, must be collected during dredging
 - will return around 1100

1015 BH off site

1100 BH back on site

Location LPR RM 10.9Date 9/25/13Project / Client USACE - RM 10.9 oversightB. Hurd

1130 Depart San beat lunch for buoy 1

1215 Arrive at Buoy 1

- Fill composite container

1250 arrive at Buoy 2

- fill composite container

find pH temp turb 100 sal depth

east 1310 7.85 18.36 14.10 9.64 0.29 4.18

middle 1300 7.73 18.10 8.80 9.09 0.29 7.20

west 1257 7.74 18.07 9.00 9.09 0.28 8.86

1330 arrive at Buoy 3

- fill composite container

1350 call from Ray (CH2M HILL)

- GLDD are done dredging for today

- we will still collect @ Buoy 4

1410 arrive at buoy 4

- fill composite container

1440 arrive at warehouse to process samples

*1515 Transsect 2 split sample collected (W/MS/MSD)

- analysis for PCBs, dioxins, pol/DOL

total Hg, dissolved Hg, SSC

- cooler left in refrigerator for delivery back to warehouse tomorrow

Location LPR - RM 10.9Date 9/25/13Project / Client USACE - RM 10.9 oversightB. Hurd

1600 per Stan K; dredging will start at the normal time tomorrow

1700 BH off site

B. Hurd
9/25/2013

Location LPR - RM 10.9 Date 1/26/13

Project / Client USACE - RM 10.9 oversight

Ben Hammond page 1 of 2

- 0805 Ben Hammond on site at Riverside Park
- weather 60°F, cloudy.
- dredging already started today, filling Chubby scow (drafting ~ 5 feet)
- sank at fire dept. boat launch by ~ 70 yards, approaching no-dredge zone
- 0900 - no sheens observed, dredge cycles 50-60 seconds, good seed observed
empty high-profile scow also at RM 10.9
- 0915 spoke w/ John Relfe (dm), said that GLDD started at ~ 0730 today
- 1045 BH off site to field office
- 1115 spoke w/ Jan Wilkie (CH2M)
- sampling plan for hard-parked area was submitted to EPA for review. if approved, CDM will observe sampling tomorrow morning
Operator observed all mud decant water to be released into river rather than into scow - will mention to dm
- 1400 low-profile scow filled (~9.5') and moved. High-profile scow moved into position.

Location LPR - RM 10.9 ^{BH} ~~oversight~~ Date 9/26/13

Project / Client USACE - RM 10.9 oversight

Ben Hammond page 2 of 2

- 1600 Dredging ongoing
- poor seed observed on several passes near riverbank due to rocky material
- spoke with John Relfe, who said they received informal approval for the operator to allow clean water to decant out of bucket and back into river instead of emptying it into the scow
- ^{BH} 1630 ~~1700~~ dredging ongoing but will likely stop for the day soon
note: earlier today performed walkthrough of PMS #1, #2, ^{BH} #3 and mobile station
- all are in position and appear to be in working order
- BH off site to return split samples from yesterday to Edson

Ben Hammond 9/26/2013

Location LPR-RM 10.9 Date 9/27/13

Project / Client USACE - RM 10.9 oversight

Bj Hurd

page 1 of 2

0900 BH on site at Riverside Park
 - Scow drafting ~5.5', indicating that not much dredging occurred after I last checked yesterday at 1700 while en route to Edison.

- Dredging not yet started today

- weather: 63°F, some clouds

1000 edit: Scow is actually ~ $\frac{3}{4}$ full, and is only drafting 5.5' feet b/c it is grounded

1030 CH2M Hill (Ben, Taylor, Darren, Andy) on site for sediment sampling
 - marking out locations w/ GPS

1100 CH2M Hill determine that sampling locations are not accessible from the shore (water too deep) so they will come back with an OSR boat in a short time from now.

1230 dredging begins

1740 CH2M Hill arrive at Cut 4T with boat for sediment sampling
 - collect samples on 4T using push-core method.
 - getting good "6" cores

Location LPR-RM 10.9 Date 9/27/13¹⁴³

Project / Client USACE - RM 10.9 oversight

Bj Hurd

page 2 of 2

- using designated trays/trucks for each location

- some of the locations have to be redone, as recovery of rocky material prevents good seal when bringing up the core

1340 - moving to cut 6T

- duplicate will be taken at location 7

1410 collected location 2 w/ duplicate CH2M Hill back to field facility

1425 per J.R., 3 empty scows are coming up tonight.

- CH2M Hill will perform probing in 4T and 6T tomorrow

1500 Dredging ongoing
 - drafting ~8'

- no shears, normal turbidity plumes

1530 PMS #1, #2, #3⁸ and weather station appear functional; as does mobile unit

1600 Drudge cycles 50-60 seconds

1630 Dredging frustrated for day, BH off site

9/27/13

Bj Hurd

Location LPR-RM10.9 Date 7/28/13Project / Client USACE - RM10.9 oversightBj Fred page 1 of 3

- 0830 BH on site at Riverside Park
 weather: 67° F sunny
 - dredging has already started but
 screw appears mostly empty
 - filling high-profile screw with other
 3 moored nearby.
 - bucket is only 10-20 yards from
 edge of no-dredge zone

- 0900 CH2M Hill (Ter, Dorian, Taylor)
 arrive to perform probing in Cuts
 4T and 6T
 - accessed the areas from the shore
 wearing waders
 - marked out grid with GPS - 5' apart
 * - decided to do full grid instead
 of "plus-sign" type pattern that was
 shown in plan. Ultimately this gives
 more points.
 - 4T grid size: 115' x 30'
 - 6T grid size: 40' x 15'
 - measurements collected by probing straight
 down with rod recording depth. If
 rock was immediately encountered and
 there was no penetration, a zero
 was recorded. This happened a

Location LPR-RM10.9 Date 9/24/13Project / Client USACE - RM10.9 oversightBj Fred page 2 of 3

- handful of times.
 - Less penetration toward shore,
 typically 0-5"
 - More away from shore, sometimes in
 the 10-25" range.
 1130 CAZM finished with probing
 activity; off site
 - dredging ongoing - ~60 sec cycles
 - observed picking up abandoned cable
 a few times
 1200 dredging paused - must wait for
 tide to come in a bit to move screw
 - BH off site for lunch
 1245: back on site
 - note: earlier discussion w/ J Rife:
 CE plans to get ~50 sediment
 trucks to the rail yard today
 - also, GLOD hope to finish north
 of no-dredge zone today, can
 go back to high spots tomorrow
 1245 Dredging resumes
 12430 verified that PMS #1, #2, mobile unit
 appear functional.

Location

LPR-RM 10.9

Date

9/28/13

Project / Client

USACE - RM 10.9 oversight

Bjthrd

page 3 of 3

1600- Dredging paused again, possibly because sand is ground again

1640- Still no dredging
- BH to field office, will visit park again in ~1 hour

1745 - on-site at Riverside Park
- barge being moved, silt curtain being adjusted
- It appears they may have finished north of no-dredge zone, but will check tomorrow with demographics

1800 BH ~~SE~~ site

Bjthrd
9/28/2013

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Common Field Data Error Codes

Error codes are used to explain common mistakes and are written above or close to the mistake.

Commonly used error codes include:

RE	Recording Error
CE	Calculation Error
TE	Transcription Error
SE	Spelling Error
CL	Changed for Clarity
DC	Original Sample Description
	Changed After Further Evaluation
WO	Write Over
NI	Not Initialed and Dated at Time of Entry
OB	Not Recorded at the Time of Initial Observation

Note: Error code should be circled, dated, and initialed when recorded.

Hazard Classifications

Class 1 Explosives
Class 2 Gas
Class 3 Flammable Liquid
Class 4 Flammable Solids (Potential spontaneous combustion, or emission of flammable gases when in contact with water)
Class 5 Oxidizing Substances and Organic Peroxides
Class 6 Toxic (poisonous) and infectious substances
Class 7 Radioactive material
Class 8 Corrosives
Class 9 Miscellaneous dangerous goods

Container type abbreviations (for sampling guidelines)

BR - Boston Round • ABR - Amber Boston Round • AJ - Amber Jug •
AWM - Amber Wide Mouth • Poly - Polyethylene Bottles • BOD - Bottle •
CWM - Clear Wide Mouth

Location LPR - RM 10.9 Date 9/29/2013
 Project / Client USACE - RM 10.9 oversight
Bruhn page 1 of 2

0840 - BH on site at Riverside Park
 - dredging not yet started, barge is near no-dredge zone which (this area) is finished. GLDD are adjusting silt curtain.

0910 - BH to Field office, spoke with Stan
 - GLDD actually finished the area near the no-dredge zone early this morning and will be moving the barge north to begin the "finger" area north of the boat launch
 - the goal is to get as much of this uncapped area done as possible
 - Stan also mentioned that GLDD are already aware of a few high spots between the boat launch and the no-dredge zone that will need to be revisited

1030 Return to Riverside Park
 - weather 70° sunny

1045 Dredging begins
 - 60 second cycles (60-70)
 - good seat, mostly organic matter (mud)

Location LPR - RM 10.9 Date 9/29/13
 Project / Client USACE - RM 10.9 oversight
Bruhn page 2 of 2

1130 PMS #1 #2 working
 - mobile unit functioning, was moved to behind day core to be near new dredging location

1630 Dredging ongoing
 - moving north, now ~ 30 yards north of benches near weather station

1700 * Station 28+28 the operator starts hitting rock/hard material in cuts near bank

1730 Spoke with Stan
 - said that they will likely dredge until 1800

1740 BH to Field office

1810 Dredging complete for day, per Gary

1825 BH off site.

Location LRR - RM 10.9 Date 09/30/10Project / Client USACE - RM 10.9 OVERSIGHTMurdillo Passaro PAGE 1 of 6

- 0835 M. PASSARO ONSITE AT FIELD OFFICE TO RETRIEVE FIELD NOTEBOOK AND PFD. SPOKE WITH GARY FOSTER WHO SAID DREDGING BEGAN AROUND 8 AM THIS MORNING.
- 0850 M. PASSARO ONSITE AT RIVERSIDE PARK. DREDGE BARGE IS FURTHER NORTH LOCATED NEAR THE STEEP SLOPE AREAS. J. ROLFE IS ONSITE.
- CURRENTLY DREDGING HAS PAUSED. BARGE IS BEING RELOCATED.
 - FULL SCOW "STYMIE" IS ONSITE AND ANCHORED DRAFTING 9.5 FT.
 - LOW PROFILE SCOW "CHUBBY" CURRENTLY DRAFTING BETWEEN 4.5-5 FT.
 - WEATHER: CLEAR, SUNNY, LOW WIND, 60°F.
- 0910 DREDGING BEGINS AGAIN. OBSERVING ABOUT 70-80% WATER IN BUCKETS BEING REMOVED. A LOT OF RIP RAP ALONG THIS AREA OF SHORELINE. RECOVERY OF MATERIAL IS POOR. AT ABOUT 10-12 FT OFF OF SHORELINE.
- MUCH BETTER RECOVERY (10-20% WATER) AT 15-20 FT OFF OF SHORELINE.
 - CYCLE TIMES 60-90 SECONDS.
- 1040 CONDUCTED SITE WALK OF AIR SAMPLING EQUIPMENT.

Location LPR - RM 10.9 Date 9/30/13Project / Client USACE - RM 10.9 OVERSIGHTMurdillo & Passaro PAGE 2 of 6

- 1040 PMS #2 = EQUIPMENT IS IN GOOD CONDITION. WILL NEED TO CONFIRM WHAT SAMPLING TOOK PLACE TODAY.
- PMS# = EQUIPMENT IS IN GOOD CONDITION. WILL NEED TO CONFIRM WHAT SAMPLING TOOK PLACE TODAY.
- WEATHER STATION = EQUIPMENT IN GOOD CONDITION
- 1134 DREDGING HAS PAUSED AND BARGE IS RE-LOCATING FURTHER NORTH.
- 1140 DREDGING BEGAN AGAIN.
- MOBILE UNIT IS IN FRONT OF ACTIVE DREDGING.
- 1200 M. PASSARO OFFSITE FOR LUNCH.
- 1230 ONSITE AT BOAT LAUNCH PREPARING FOR SOIL PROBING - 59-60 LOCATION.
- TAYLOR FOR HILL, JEFF WITH OSI, AND J. ROLFE (de maximis).
- 1235 LEAVING BOAT LAUNCH.
- 1300 "CHUBBY" IS DRAFTING APPROXIMATELY 5 FT.
- PT. 1 = 2 attempts ① = 2" ② = 23"
 - PT. 2 = 0"
- 1315 DREDGING OPERATION HAS STOPPED. SCOW IS AT 8'.
- PT. 3 = 20"

Location LPR - RM 10.9 Date 9/30/13Project / Client USACE - RM 10.9 - OVERSIGHTMeredith L. Passano PAGE 3 OF 6

- 1315 - PT. 4 = 21", rock/gravel present
 - PT. 5 = 17" OF SEDIMENT
 - PT. 6 = AT(1) = 0", AT(2) = 0" OF SEDIMENT
 - PT. 7 = 26" OF SEDIMENT
 - PT. 8 = 0"

1322 DREDGING OPERATION BEGINS AGAIN.

- PT. 8A = 0" - rock, could hear it.
 - PT. 9 = 0"
 - PT. 10 = 0"
 - PT. 11 = 1" - rock/gravel.
 - PT. 12 = AT(1) = 1", AT(2) = 1"
 - PT. 13 = 3"
 - PT. 14 = 24"+, Attempt 1 = hit rock.
 - PT. 15 = 24", Attempt 1 = hit rock.
 - PT. 16 = 24"+, Attempt 1 = hit rock. - NOTED PREPARE
 TO TELL INSTANTANEOUS SEDIMENT THICKNESS
 BECAUSE EVERYTIME POLE IS TELEUSTED
 DOWN, IT ALWAYS SLIGHTLY KICKS OUT
 TOWARDS CENTER OF RIVER. SLOPE IS
 IMPACTING STUDY.
 - PT. 18 = 1" Attempt 1, Attempt 2 7" - hit rocks
 - PT. 17 = 23"
 - PT. 19 = 12", rock, sand, silt.
 - PT. 20 = 19" Attempt 2, First Attempt = 0"

Location LPR - RM 10.9 Date 9/30/13Project / Client USACE - RM 10.9 - OVERSIGHTMeredith L. Passano PAGE 4 OF 4

1343 - PT. 21 = AT(1) = 0", AT(2) = 10"

- PT. 22 = 10.5"

- PT. 23 = AT(1) = ROCK, AT(2) = 5"

- PT. 24 = 24" - rock/sand.

- PT. 25 = 0"

- PT. 26 = 0"

- PT. 27 = 11"

- PT. 28 = 7"

- PT. 29 = 24"+, SAND.

1400 DREDGING HAS STOPPED. ^{MUP} FOR THE DAY.

SLOW IS DRAFTING @ 8.5 FT.

- PT. 30 = ROCK, 0"

- PT. 31 = 23", HIT A ROCK FIRST.

1410 DREDGING OPERATION HAS RESUMED.

- PT. 32 = 14"

- PT. 33 = 10", HIT A ROCK FIRST.

- PT. 34 = 15", HIT A ROCK FIRST.

- PT. 35 = 6" - SAND/GRAVEL

- PT. 36 = 24+", HIT ROCK FIRST ATTEMPT.

- PT. 37 = 23", GRAVEL/SAND.

- PT. 38 = 0"

- PT. 39 = 24+", HIT ROCK AT FIRST.

- PT. 40 = 0"

1415 - PT. 41 = 24"+, SAND/SILT

Location LPR RM-10.9 Date 9/30/13Project / Client USACE - RM 10.9 - OVERSIGHTMeredith L. Parnano PAGE 5 of 6

- 1415 - PT. 42 = 12", rock/sand.
 - PT. 43 = 0"
 - PT. 44 = 12", HIT ROCK FIRST
 - PT. 45 = ① HIT ROCK ② 24" SAND/ROCK
 - PT. 45A = ① HIT ROCK ② 24" SAND/ROCK.
 - PT. 46 = 2 Attempts, both = 1"
 - PT. 47 = ① HIT ROCK ② ROCK = 0"
 - PT. 47A = ① ROCK ② 24" COBBLE/SAND.
 - PT. 48 = 3" ROCK/SAND
 - PT. 49 = 4" ROCK/SAND
 - PT. 50 = 2" GRAVEL/SAND
 - PT. 51 = 0" ROCK
 - PT. 52 = 0" ROCK.
 - PT. 53 = 0" ROCK/GRAVEL
 - PT. 53A = 0" ROCK
 - PT. 54 = 24", HIT A ROCK.
 - PT. 55 = 1" ROCK/GRAVEL
 - PT. 56 = 6" ROCK SAND ②, HIT A ROCK ON FIRST ATTEMPT ① 0"
 - PT. 56A = 24" SAND/SILT.
 - PT. 1A = 24" SOFT, SILT.

1450 DREDGE SCOW IS DRAFTING \approx 9 ft.

1513 BACK ONSITE AT BOAT LAUNCH.

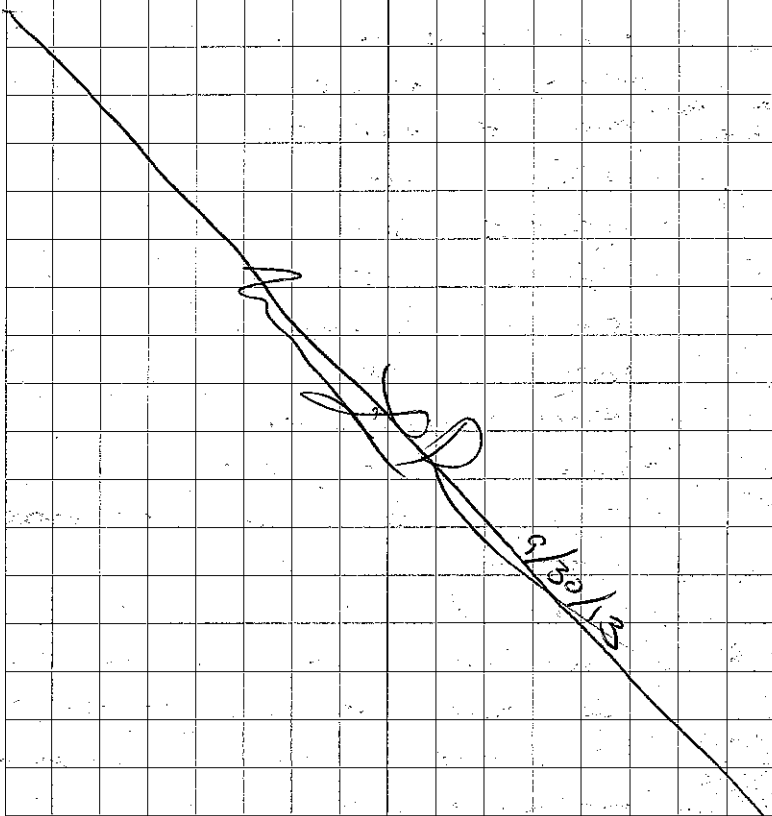
1530 BACK ONSITE AT RIVERSIDE PARK. DREDGE OPERATION IS ONGOING.

Location LPR RM 10.9 Date 9/30/13Project / Client USACE - RM 10.9 - OVERSIGHTMeredith L. Parnano PAGE 6 of 61642 STILL DREDGING. "CHUBBY" IS DRAFTING \approx 9.5 FT. - 10.0 FT.

1645 DREDGE OPERATOR IS WASHING SIDE OF SCOW FINAL DRAFT IS AT LEAST 9.5 FT. DONE DREDGING FOR THE DAY.

NO OTHER SCOWS AVAILABLE ONSITE.

1700 M. PASSED OFFSITE FOR THE DAY.



Location LPR - RM 10.9 Date 10/1/13Project / Client USACE - RM 10.9 - OVERSIGHTMeredith L. Passaro

PAGE 1 of 4

- 0723 M. PASSARO ONSITE AT RIVERSIDE PARK.
- Dredging has not started, there are no new scows onsite to Dredge into.
- Silt curtain is down in 2 pieces.
- 0731 TWO HIGH PROFILE SCOWS ARRIVE ONSITE.
- 0800 RECONNECTING THE SILT CURTAIN.
- 0910 PARTS OF THE SILT CURTAIN ARE IN BAD SHAPE. CREW IS FIXING THEM.
- 0935 M. PASSARO OFFSITE AT PARK.
- 0950 M. PASSARO ONSITE AT FIELD FACILITY FOR WEEKLY MEETING.
- 1000 WEEKLY STATUS MEETING
- M. HARRIS FROM EPA ONSITE.
- 1010 RECEIVED WORD FROM ROY THAT DREDGING BEGAN.
- RESCHEDULED TRANSECT SAMPLING FOR NOON.
- 1020 M. PASSARO OFFSITE FROM FIELD FACILITY.
- 1050 M. PASSARO ONSITE AT RIVERSIDE PARK.
- LARGE PROFILE SCOW IS IN PLACE NEXT TO DREDGE BARGE. CURRENTLY DRAFTING IS 4 FT.
- CURRENTLY RELOCATING EQUIPMENT.
- 1115 DREDGE BARGE IS RELOCATED AND

Location LPR - RM 10.9 Date 10/1/13Project / Client USACE - RM 10.9 - OVERSIGHTMeredith L. Passaro

PAGE 2 of 4

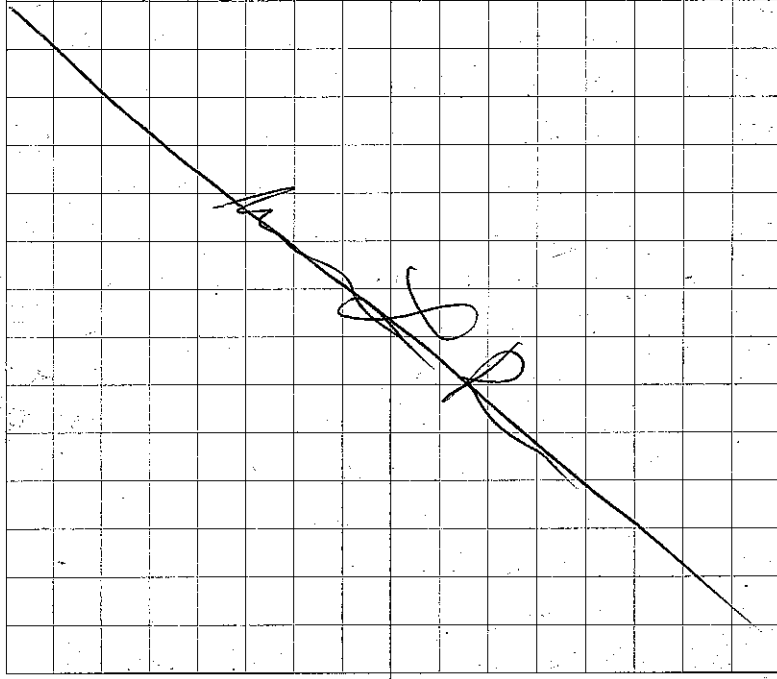
- 1115 DREDGE OPERATION HAS STARTED.
- CURRENTLY 20-30 FT OFF SHORELINE.
RECOVERY IS GOOD, GOOD SEAL.
- CYCLE TIMES ARE 60-90 SECONDS.
- 1120 M. PASSARO OFFSITE AT RIVERSIDE PARK.
- 1150 M. PASSARO ONSITE AT BOAT LAUNCH FOR TRANSECT SAMPLING.
- ONSITE WITH ANDY (HILL) AND JEFF (OSI).
- 1244 ARRIVED AT BUOY #1 TO COLLECT COMPOSITE SAMPLE. AT FAR RIVER SIDE.
- 1254 - START WATER RRG AT 1252, SAMPLE AT 1254.
- 1300 RELOCATED TO MIDDLE RIVER AT BUOY #1
- SAMPLE AT 1302.
- 1308 RELOCATED TO NEAR RIVER AT BUOY #1
- SAMPLE COLLECTED AT 1310.
- 1315 MOBILIZE TO BUOY #2.
- 1318 ARRIVE AT FAR SIDE OF RIVER AT BUOY #2.
- | Time | pH | Temp | Turbidity | DO | Depth | Salinity |
|------|------|-------|-----------|-------|-------|----------|
| 1321 | 7.42 | 18.79 | 7.40 | 9.63 | 6.43 | .59 |
| 1330 | 7.43 | 19.91 | 7.50 | 9.71 | 5.84 | .61 |
| 1339 | 7.46 | 19.09 | 7.90 | 10.27 | 3.64 | .61 |
- FAR SAMPLE TIME = 1323, MIDDLE = 1332, NEAR = 1341

Location LPR - RM 10.9 Date 10/1/13Project / Client USACE - RM 10.9 - OVERSIGHTMeadell L Passaro PAGE 3 of 4

1350 MOBILIZE TO BOUY #3.
 1356 - STARTED PURGING FAR SIDE AT BOUY #3
 ° SAMPLE COLLECTED AT 1358.
 1402 - STARTED PURGING AT BOUY #3 MIDDLE RIVER.
 ° SAMPLE COLLECTED AT 1404
 1410 - STARTED PURGING AT BOUY #3 NEARSHORE
 ° SAMPLE COLLECTED AT 1412.
 1420 MOBILIZE TO BOUY #4.
 1427 - STARTED PURGING AT FARSHORE.
 ° SAMPLE COLLECTED AT 1429.
 1433 MOBILIZE TO MIDDLE RIVER.
 1435 - START TO TURGE 1435
 ° SAMPLE COLLECTED AT 1437.
 1442 - START TO TURGE AT NEARSHORE.
 ° COLLECT SAMPLE AT 1444.
 1450 MOBILIZING BACK TO THE DOCK.
 1522 AT FIELD OFFICE WITH J. RAKOWSKI AND ANDY (HILL). GETTING PREPARED TO TAKE SPLIT SAMPLE.
 1545 SPLIT SAMPLE COLLECTED.
 1555 J. RAKOWSKI OFFSITE WITH SPLIT SAMPLE.
 1600 SPOKE WITH TAYLOR (HILL) ABOUT AIR

Location LPR - RM 10.9 Date 10/1/13Project / Client USACE - RM 10.9 - OVERSIGHTMeadell L Passaro PAGE 4 of 4

1600 SAMPLING. TODAY MERCURY AND PCB'S WERE DEPLOYED NO COPC SAMPLING TOOK PLACE YESTERDAY.
 1605 M. PASSARO OFFSITE AT FIELD FACILITY.
 1625 M. PASSARO ONSITE AT RIVERSIDE PARK. DREDGING IS STILL IN PROGRESS.
 1645 - SCOW IS DRAFTING APPROXIMATELY 8 FT.
 1700 M. PASSARO OFFSITE FOR THE DAY. WILL CHECK FINAL DRAFT OF SCOW IN THE MORNING.



Location LPR - RM 10.9 Date 10/2/13Project / Client USACE - RM 10.9 - OVERSIGHTMeredith X Passaro PAGE 1 OF

- 0850 M. PASSARO ONSITE AT RIVERSTONE PARK.
- DREDGING OPERATION HAS NOT STARTED FOR THE DAY. FULL HIGH PROFILE SCOW IS ANCHORED ONSITE DRAFTING BETWEEN 9-9.5 FT.
 - BATHY SURVEY IS CURRENTLY BEING PERFORMED IN ZONE DREDGED YESTERDAY.
 - DREDGE BARGE IS CURRENTLY LOCATED UP BY STATION 32 IN CUT 10.
 - WEATHER IS CLEAR, 65°F, WIND=0.0 mph.
- 0933 CONDUCTED SITE WALK OF EQUIPMENT
- PMS #3 IN GOOD CONDITION AND RUNNING
 - IN RIVER UNIT - IN PROPER PLACE AND RUNNING
 - WEATHER STATION - EQUIPMENT IN GOOD CONDITION
- 1016 J. ROLFE IS ONSITE, SURVEYS OF 7-9 WERE RELEASED THIS MORNING. RED OUTLINED WILL BE RE-DREDGED TODAY, BLACK OUTLINED AREAS WILL BE INVESTIGATED TO SEE IF HARD PAN AREAS.
- DISCUSSION BETWEEN J. ROLFE AND M. HOPPE ABOUT FUTURE AIR SAMPLING.
 - 8 BUCKETS OF MATERIAL FROM CUT 10 WERE REMOVED AT 7:30 AM. FROM THE HOT ZONE.
 - DISCUSSED THE STATE OF THE SILT CURTAIN

Location LPR - RM 10.9 Date 10/2/13Project / Client USACE - RM 10.9 - OVERSIGHTMeredith X Passaro PAGE 2 OF

- 1016 WHICH CANNOT BE LET TO DEGRADE AGAIN DURING THE CAPPING PROCESS.
- 1044 SPOKE WITH M. HOPPE ABOUT FUTURE ONSIGHT COVERAGE
- WOULD LIKE SOMEONE ONSIGHT UNTIL EQUIPMENT IS OFFSIGHT.
 - CLEAN EARTH DEMOBILIZATION IS NOT OUR CONCERN. DO NOT NEED TO STAFF THE DEMOBILIZATION.
 - WANTS SOMEONE ONSIGHT FOR THE MOBILIZATION OF THE CAPPING EQUIPMENT.
- 1100 SPOKE WITH ROY. DREDGING HAS STILL NOT STARTED TODAY. HE SAID GLDD IS WAITING FOR THE COMPLETED SURVEY OF CUTS 7-9.
- 1147 DREDGING HAS STILL NOT STARTED TODAY. CREW IS ONCE AGAIN UNTANGLING THE SILT CURTAIN.
- 1200 PMS #2 IS WORKING AND IN GOOD CONDITION. PMS #1 IS WORKING AND IN GOOD CONDITION. MOBILE AIR MONITORING - GOOD POSITION.
- TAYLOR (ITILL) ONSITE CONDUCTING MAINTENANCE ON EQUIPMENT.
 - STAN (de maximis) ONSITE.
- 1210 SPOKE WITH STAN ALL EQUIPMENT

Location LPR - RM 10.9 Date 10/2/13Project / Client USACE - RM 10.9 - OVERSIGHTMeredith L Passaro PAGE 3 of

1210 WILL STAY ONSITE UNTIL FRIDAY, THAT MEANS DREDGING CAN TAKE PLACE UNTIL THEN.

- EMPTY BARGES AT CE WILL BE EMPTY TODAY. DECONTAMINATED BY TOMORROW.
- NEXT TWO BARGES SHOULD BE COMPLETED BY NEXT MONDAY. THEORETICALLY WITHIN NEXT TWO WEEKS CE SHOULD BE BACK ONLINE.
- MEETING GOING ON NEXT WEEK - FIRM DATES FOR CAPPING.
- 5 WATER TRUCKS AND 30 SEDIMENT TRUCKS AT CE FACILITY.

1307 TUG IS BEGINNING TO MOVE SCOW INTO PACE BESIDE DREDGE BARGE.

1350 DREDGING OPERATION BEGINS IN 8-9T AREA.

- SCOW IS DRAFTING APPROXIMATELY 4 FT.

1430 DREDGING HAS STOPPED.

1453 JUST INFORMED BY STAN THAT THERE HAS BEEN A CHAIN SUCKED UP INTO THE ENGINE OF THE TUG BOAT. THEY ARE WORKING ON FIXING THE PROBLEM BUT ARE TRYING TO MOVE SCOW + BARGE AROUND

Location LPR - RM 10.9 Date 10/2/13Project / Client USACE - RM 10.9 - OVERSIGHTMeredith L Passaro PAGE 4 of

1453 BY USING THE SMALL BATHY-SURVEY BOAT.

1500 DREDGING BEGINS AGAIN.

- CYCLE TIMES RANGING FROM 60-90 S.
- RECOVERY IS GOOD, CLEAN SEAL.

1526 JUST RECEIVED WORD FROM J. RIFE THAT GLDD IS GOING TO NEED TO BRING A DIVER IN TO COMPLETE THE REPAIRS ON THE TUG. SURVEY BOAT IS CONTINUING TO BE USED FOR MOVING SCOW AND BARGE.

- TAYLOR AND JOE (HILL) ARE ONSITE TO CONDUCT ADDITIONAL SEDIMENT PROBING.

1602 TOTALS FROM CE = 45 SOIL TRUCKS, 5 WATER TRUCK ALL OF TWO SCOWS HAVE BEEN EMPTIED.

1633 SEDIMENT PROBING IS COMPLETED. DREDGING HAS STOPPED AGAIN.

1850 M. PASSARO OFFSITE FOR THE DAY.

M. Passaro
10/2/13

Location LPR - RM 10-9Date 10/3/13Project / Client USACE - RM 10-9 - OVERSIGHTMeredith L Passaro

PAGE 1 of 3

- 1020 M. PASSARO ONSITE.
- FIRE DEPARTMENT DIVE TEAM WAS CALLED IN LAST NIGHT. CREW WAS ONSITE PAST 8 PM. FOR HES ISSUES.
 - J. ROLFE AND M. HOPPE BOTH ONSITE.
 - DREDGE OPERATION IS CURRENTLY ONGOING. IT'S BEEN ONGOING SINCE 0730 THIS MORNING. CURRENTLY DREDGING IN THE 7T AREA ADJACENT TO THE NO DREDGE ZONE.
 - GOOD RECOVERY, CLEAN SEAL IN ALL BUCKETS.
 - WEATHER: CLEAR, HIGH OF 75°F
- 1115 STAN (DE MAXIMIS) IS ONSITE. DISCUSSING CURRENT AREA WAS PREVIOUSLY A SINGLE PASS WHICH IS WHY RECOVERY IS GOOD.
- SURVEY RESULTS SHOULD BE EXPECTED TOMORROW MORNING.
 - BARGE IS CURRENTLY MOVING UP RIVER. TO THE BLACK-BOXED SECTION WITHIN 9T. CURRENTLY IN THE AREA WHERE PROBING WAS CONDUCTED YESTERDAY.
- 1138 DREDGING HAS STARTED AGAIN
- RECOVERY HAS BEEN GOOD, THERE IS

Location LPR - RM 10-9Date 10/3/13Project / Client USACE - RM 10-9 - OVERSIGHTMeredith L Passaro

PAGE 2 of 3

- 1138 NOTICEABLY DEBRIS IN THE BUCKETS, BUT A RELATIVELY CLEAN SEAL IS OBSERVED.
- 1214 BARGE IS MOVED BACK TO BOAT LAUNCH AREA. TRYING TO RECOVER MORE MATERIAL.
- MOSTLY ROCK AND DEBRIS, ALONG SHOULDER, NOT GREAT RECOVERY, AROUND 80% OF BUCKET IS WATER.
- 1230 SCOW IS CURRENTLY DRAFTING APPROXIMATELY 5-5.5 FT. CYCLE TIMES RANGE FROM 60-70S.
- OBSERVED A COUPLE BUCKETS OF GOOD RECOVERY.
- 1242 DREDGE OPERATOR IS WASHING OFF SIDE OF SCOW. GOT THE WORD THAT DREDGING IS DONE FOR THE DAY. RE-SURVEYING 7T-9T NOW AND WILL DREDGE 4T IN THE MORNING.
- 1250 M. PASSARO IS OFFSITE.
- 1430 ONE SEDIMENT SAMPLE IS COLLECTED. FORGOT DECON AGENT [ALCONOX] GOING BACK TO FIELD FACILITY. STILL 3 MORE SAMPLES TO COLLECT.
- 1531 SAMPLING IS COMPLETE. M. HOPPE WAS ALSO ONSITE TO OBSERVE.

Location LPR - RM 10.9 Date 10/3/13Project / Client USACE - RM 10.9 - OVERSIGHT
Mendell X Passaro PAGE 3 of 3

1600

SEGMENT SAMPLING TOOK PLACE IN CUT 9. IN THE HARD PAN AREAS IDENTIFIED IN BLACK (OUTLINED) ON THE UPDATED SURVEYS. 2 OF THE 4 SAMPLES WERE COLLECTED FROM THE SURFACE DUE TO LOW TIDE AND ANOTHER 2 WERE COLLECTED WITH A PONAR DEVICE SINCE THEY WERE BELOW THE WATER LEVEL.

- SAMPLING WAS DONE IN ACCORDANCE FOR DESIGN PLAN AND WILL NOT DICTATE FURTHER DREDGING.

- SAMPLES WERE TAKEN FROM ALL AREAS RE-DREDGED IN CUT 9 TODAY.

1624

PASSING FIELD NOTEBOOK OFF. (M).

PASSARO IS OFFSITE FOR THE DAY.

→ RELINQUISHED BY

X By [Signature]

Mendell X
Passaro
10/3/13

Location LPR - RM 10.9 Date 10/4/2013Project / Client USACE - RM 10.9 oversight
By [Signature]

0750 - Ben Hammond on site at Riverside Park

weather 60°F, cloudy

- Dredge is positioned in Cut 4T. Last bucket has just been collected.

0810 - per Mike Happe (EPA) GLDD performed 10-12 passes with minimal recovery in the undercut area probably achieved 6" average cut.

0910 BH to Field office

- per Stan, post-dredging sampling will take place next Wed, 10/9

1000 At park, GLDD are beginning demo

- removing silt curtain

- Survey boat observed in morning.

1130 per M. Happe Survey is supposed to be published by noon.

1545 GLDD has removed all silt curtain (will be processed as waste)

- BH off site

By [Signature] 10/4/13

Location LPR-RM 10.9 Date 10/9/2013Project / Client USACE - RM 10.9 oversightBen Hamel

0700 - Ben Hamel on site at boat launch in Rutherford, NJ

weather: SS, scattered cloudsactivity: post-excavation sampling
Oversight and split sample collectionpersonnel: JEFF (OSG), Kieran (CH2M)
Kevin (CH2M)

0730: en route to RM 10.9

*0803: first location, cut 1 location 1

- K & K collect sample with

ponar and fill bottles after
homogenizing in dedicated tray
& dedicated travel

- collect split sample

LPR-RM10.9RA-PDS-1TO1-GIAS-C

and LPR-RM10.9RA-PDS-1TO1-GIAS-C-Dup

analysis for PAHs/PCBs/Dioxins (8 oz amber)

- mercury (8 oz clear)

- TOC ^{BH} (2 oz clear)

- ponar deployed between locations

- next 3 locations collected

0910: cut 3 location 1 collected

*LPR-RM10.9RA-PDS-3TO1-GIAS-C

Location LPR-RM 10.9 Date 10/9/2013Project / Client USACE - RM 10.9 oversightBen Hamel- analysis for PAHs, PCB, Dioxin
- extra bottle for ~~MSM~~ ^{MSM} (2 x 8 oz amber)

Hg - " " (2 x 8 oz clear)

TOC (1 x 2 ^{BH} oz clear)

sample time 0910

~~1000~~^{BH} continuing to sample, now north
of no-dredge zone- samples are generally muddy organic
material, except those collected
near shore (more sandy)

1115 * collected split sample

LPR-RM10.9RA-PDS-9-02-GIAS-C

1 8 oz. amber (PAHs, PCBs, Dioxins)

1 8 oz. clear (mercury)

1 2 oz. clear (TOC)

sample time: 1115

1140 * collected split sample

LPR-RM10.9RA-PDS-10-02-GIAS-C

1 8 oz. amber (PAHs, PCBs, Dioxins)

1 8 oz. clear (mercury)

1 2 oz. clear (TOC)

sample time: 1140

note: the 4 splits were collected at
CH2M-coded locations "1", "5", "14" and "16"

Location LPR - RM 10.9 Date 10/9/13Project / Client USACE - RM 10.9 oversight
Ben Howard

1230 Difficulty grabbing #18
(cut 10, location #4) due to
rocky material/debris
- moved ~40' off target (mostly into
channel) before a sample could be recovered
- 17 attempts were made

- verified with Taylor (CH2M) that
new location is within dredged area

1300 Last 2 samples collected

1320 equipment blank filled by
running water over removable piece
of power grab sampler

1400 BH to field facility to
organize ^{BH} package samples and compose
field report

Note: Sheens observed in most samples
from ~12 onward (cuts 9 and 10)

1500 - samples left in refrigerator at
field facility →

Ben Howard
10/9/2013

Location LPR - RM 10.9 Date 11/12/13Project / Client USACE - RM 10.9 oversight
Ben Howard

0830 Ben Howard on site at Field
Facility in Rutherford, NJ to
receive status update on today's
capping activities from CPG
- generator that powers hopper is broken
electrician on site this morning to
diagnose. Per J. Wolfe, generator is
very old.

Summary of on-site activities
November 7 & 8, 11/2013
(beginning of capping effort) as
documented by A. Picunas in
Daily Reports

11/7/2013: AP observed two barges and
two scows mobilized to RM 10.9 at
1630.

11/8/2013: GLPD performed maintenance on
equipment all day, no capping took place.
Test run of mixing operation (sand/carbon)
was postponed.

11/9/2013: GLPD performed test run of
sand/Aggregate mixture. Maintenance
performed on equipment.

Location IPR - RM 10.9 Date 11/12/13Project / Client USACE - RM 10.9 oversight
Byr Hammond

11/11/2013: Capping still not underway.
Equipment breaking, needing repair.

11/12/2013: 1500 received confirmation from
S. Kaczmarek that capping will not
proceed today but that hopefully
the generator should be replaced and
operable by tomorrow morning.
- also received word that surface
water transect sampling will be delayed
until Thursday, 11/14/2013.

BH coordinated with G. Midmar and
S. O'Hare to have them arrange a
bottle set and have it delivered
to CPG facility. Split sample to be
collected.

1600: BH off site

Byr Hammond
11/12/2013

Location IPR - RM 10.9 Date 11/13/13Project / Client USACE - RM 10.9 oversight
Byr Hammond

0830: BH on site at Riverside Park
to check if capping is underway
weather: 32°F some clouds

- note: received word from S. Kaczmarek last
night at 2000 that new generator is
installed and system is fully
energized/operable

0835: received call from S.K.,
generator is not functioning.
- BH to Field Facility for
1000 meeting.

1000: Weekly progress meeting

Key details:

- TK of GLD indicated that
system will be operable by 1200 today and
will be operating full-scale by tomorrow

- J. Wilkie & others proposed that WQ
monitoring be postponed until Monday,
when capping operations have become regular

- S. Vaughn (EPA) indicates this is OK
- additional Bridge SL report will be required
after Thanksgiving

- still waiting for size/chemical analysis
for armor layer

Location LPR - RM 10.9 Date 11/13/13Project / Client USACE - RM 10.9 oversightBjorklund

- Discussion about DOE testing still needs to take place between ~~CPG~~/EPA
- Concerned Citizen reported sea wall damage due to wakes from GLDD boats but an independent surveyor confirmed that it was due to storm damage

1200: Btl on site at Riverside Park

- observed GLDD performing maintenance on equipment

1230: GLDD began capping operations

- spread material in radial passes off of telebelt
- appears to be achieving sufficient coverage (judging by exposed areas)

1330-1400: capping paused; reason unclear

1400-1630: capping proceeded with few delays

- some turbidity plumes observed, but little migration

* S. Offner (CDM) on site to deliver sample bottles and survival suit at 1400.

1530: observed GLDD taking sample cores of capped area.

1630: capping finished for day; Btl off site

Bjorklund 11/13/2013Location LPR - RM 10.9 Date 11/14/13Project / Client USACE - RM 10.9 oversightBjorklund

OBS: Btl on site at Riverside Park

weather: ~40°F, clear

- capping underway, but stopped soon after starting due to equipment failure (generator)
- Btl to field office

1030 Btl to Riverside Park in anticipation of work resuming

1100 work resumes briefly but stops again due to generator

- Both mobile air monitoring stations observed in working order (monitoring for dust and H₂S at 1)

1330 Btl to Park after receiving word that operations resumed

- upon arrival, received word that they have stopped again

1430 - per S. Kaczmarek, GLDD will obtain a new generator this afternoon/evening and resume tomorrow

- Btl catch up on reports, off site at 1645

Bjorklund 11/14/13

Location CPR - RM 10.9 Date 11/15/13Project / Client USACE - RM 10.9 oversight
Bp Lhrnd

- 0730 - BH on site at Riverside Park
Weather: 45°F, clear
- Capping not yet started, GLDD observed performing maintenance on barge
- new generator in place
- 0930 - capping begins
- some turbidity observed, did not migrate very far from capping location
- 1000 CH2M Hill installed the 2 air monitoring locations near capping BH
- Discussed with J. Rolfe (EPA) (dm) the generator replacement
- 1030 Mike Hoppe (EPA) on site
- noted abundance of Aggregata washed up in certain already-capped areas.
- not a big concern; has largely to do with greater percentage of Aggregata used than required at first.
- per M. Hoppe, transect w/ sampling postponed to Tuesday 11/19/13
- 1230 - BH to lunch

Location CPR - RM 10.9 Date 11/15/13Project / Client USACE - RM 10.9 oversight
Bp Lhrnd

- 1300 - BH on site, capping ongoing
- dust generation off Telebelt appears minimal
- 1500 - GLDD performing third lift in same area
- per J. Rolfe, transect sampling now scheduled for Wednesday, 11/20/13
- 1615 - 3rd lift complete, GLDD observed cleaning up, having finished for today
- BH off site to field office

Bp Lhrnd
11/15/13

Location LPR-RM10.9 Date 11/16/13Project / Client USACE - RM10.9 oversightBegun Hand

0830 - Btt on site at Riverside Park
 weather: 55°F, some clouds
 - capping already underway, J. Rolfe (dm)
 on site observing

- began day approximately across from
 picnic gazebo in park

1030 - capping on going
 - some turbidity, but it is contained
 near capping location and turb. at
 Buys remains low

1130 JR off site

1230 Air monitors have been in place and
 running all day

- no visible dust generation

1500 progressing without delay

- barge being moved northward

- not many Super sizes of
 Aquagate left, but a barge
 increment is planned for tonight to
 obtain more.

1630 GLDD done for day, Btt off site

- relinquishing field notebook to Amy Picunas

X

11/16/13

Location LPR-RM10.9 Date 11/18/13Project / Client USACE - RM10.9 oversight

Page 1 of 2

1200 - AP onsite at Riverside Park. Weather:

65°F, sunny.

- no capping has occurred yet today.

GLDD ~~sp~~ spent morning fixing 2 belts,
 informed by J Rolfe (dm) at 1230 that
 GPS on Telebelt also in need of
 repairs. Also GLDD only has 2 hrs of sand at ^{PM} 10.9

- J Rolfe (dm) & M Hoppe (EPA) onsite
 at Riverside Park to provide oversight

1245 - J Rolfe offsite for field office

1250 - M Hoppe offsite for day

1300 - AP offsite for field office

1430 - GLDD resumes capping.

- Maintaining a good sand: Aquagate ratio,
~~4~~ buckets of sand: 1 super of
 Aquagate

- Two dust meters set up, no dust observed

- Minor turbidity plumes observed that
 do not migrate more than 5-10 feet
 before dropping. Turbidity at river
 monitors is low.

- CH2M Hill (R. Miller) collects capping
 samples in 4" diameter Lexan tubes.

1630 - End of day

Location LPR-RM10.9 Date 11/18/13
 Project / Client USACE-RM 10.9 oversight
 Page 2 of 2

~1500: Observed H&S incident-

- Deck hand from GLDD observed on top of hopper mixer utilizing Aquagate supersacs from below. Supersacs were suspended in the air using the CAT long-stick excavator.
- This activity created potential fall hazard, struck-by hazard, pinch hazard & potential to fall into the hopper mixer.
- AP informed JR of the unsafe work practice. JR immediately called M Holsinger & G Foster of CH2M Hill. ~~Un~~ Unsafe work practice was halted.

1640: AP offsite for day.

Amey P. Farnas
11/18/13

Location LPR-RM10.9 Date 11/19/13
 Project / Client USACE-RM 10.9 oversight
 Page 1 of 1

0840: AP onsite River side Park. Weather:

- 45°F Sunny & Windy
- GLDD actively placing sand/Aquagate cap.
- Maintaining good Sand: Aquagate ratio.
- Placing in a radial pattern, appears at same rate as yesterday (cannot see placed thickness due to high tide)
- Two dust meters set up & operating. No dust clouds observed.
- GLDD transported 1 fully loaded sand scow & 1 fully loaded Aquagate barge up to RM 10.9 last night.
- Minor turbidity observed, drops out within 5ft of placement.

0915: GLDD halts capping to switch out sand scow & Aquagate barge.

0945: GLDD resumes capping. GLDD works steadily until ~1230.

1230-1440: GLDD repositioning barges, changing out Aquagate barges.

1440-1620: GLDD resumes placement of cap.

1530: CH2M Hill collects placed cap core

Sample.

1620: AP offsite for day.

Amey P. Farnas
11/19/13

Location LPR- RM 10.9 Date 11/20/13
 Project / Client USACE RM 10.9 oversight
 Page 1 of 2

0800: AP onsite at Riverside Park. Weather: Sunny
 33°F

0815: GLDD resumes placement of sand / Aggregate cap.

0945: Water sampling with C-EMTH11
 collecting split samples at Buoy #2.

0955: Buoy #2 - West

1009: Sample Buoy #2 West, Depth 7.6 ft
 pH 7.8 Temp 7.56 degC Turb 25 NTUs
 DO 10.4 mg/l Sal 0.81 ppt

1022: Sample Buoy #2 Center, Depth 9.2 ft
 pH 7.70 Temp 7.51 degC Turb 37.9 NTUs
 DO 10.13 mg/l Sal 0.83 ppt

1034: Sample Buoy #3 East, Depth 2.33 ft
 pH 7.68 Temp 7.58 degC Turb 24.5 NTUs
 DO 9.97 mg/l Sal 0.66 ppt

1058: Sample Buoy #3 West, Depth 8.3 ft
 pH 7.74 Temp 7.66 degC Turb 21.2 NTUs
 DO 10.28 mg/l Sal 0.44 ppt

1107: Sample Buoy #3 Center, Depth 8.35 ft
 pH 7.6 Temp 7.67 degC Turb 20.3 NTUs
 DO 10.01 mg/l Sal 0.44 ppt

1117: Sample Buoy #3 East, Depth 8.8 ft
 pH 7.64 Temp 7.65 degC Turb 20.5 NTUs

Location LPR- RM 10.9 Date 11/20/13
 Project / Client USACE - RM 10.9 oversight
 Page 2 of 2

DO 10.09 mg/l Sal 0.43 ppt

1000-1130: GLDD continued capping activities
 - No turbidity observed while out on the river

- Observed EPA coring boat collecting vibracore samples in the utility corridor

1130: Off river, break for lunch

1300: Fill bottles at CCR Field Office

1500: Onsite at Riverside Park. GLDD continues capping.

- New sand scum transported upriver to RM 10.9 today. Now have sufficient sand onsite for 2 more days (approx. COB Friday).

- Anticipate a new barge of Aggregate to be transported tonight.

- Two dust monitors set up, no visible dust plumes observed.

- No significant turbidity plumes observed.

1600: AP departs to CCR Field Facility where Scum Offshore picks up today split samples.

1630: AP offsite for day

Amber Thomas
11/20/13

Location LPR RM 10.9 Date 11/21/13Project / Client USACE - RM 10.9 Oversight

Page 1 of 1

0845: AP onsite at Riverside Park. Currently GLDD is not capping. Weather: Sunny 37°F.

- EPA crew onsite collecting vibrocore samples at southern limits of RM 10.9 dredge area.
- Two dust monitors set up ~200ft north & south of capping activities. No ~~capping~~ ^{dust observed.}

0910: GLDD resumes capping.

- Capping near southern end of "No Dredge Zone".
- Placing Aquafate / Sand at a good ratio, at good rate ~~and~~ in a radial pattern (can't see placed cap due to high tide)
- Minor turbidity observed, drops out within 5ft of placement.

1400: Capping ceased for the day, GLDD expended all Aquafate onsite.

- Per G Foster, a barge movement of Aquafate is scheduled for tonight.

1430: AP offsite for the day

Andy Thomas
11/21/13

Location LPR RM 10.9 Date 11/22/13Project / Client USACE - RM 10.9 Oversight

Page 1 of 2

0920: GLDD begins capping activities for the day.

- Two dust monitors set up ~200ft north & south of capping. No dust observed.

- Placing Sand / Aquafate in a radial manner.

- Scow / Barge movements today have provided sufficient sand for another 1.5 days of capping (mid-day Saturday) and enough Aquafate for 2 days of capping (COB Saturday)

- Minor turbidity observed, drops out within 5ft of placement.

- Capping near southern end of "No Dredge Zone". Expect capping in this area will be completed by COB ~~Saturday~~ today.

- - Per J Rolfe, the cable was cut off last night at low tide. Stan, Mike Holsinger & Gary Foster were there to cut it off. Photos to follow.
- Per J Rolfe, Stan is preparing production numbers today to submit

Location LPR RM 10.9 Date 11/22/13Project / Client USACE - RM 10.9 oversight

Page 2 of 2

to group.

1200: GLDD pauses capping activities to break for lunch, capping to southern edge of ^{No Dredge} zone completed.1400: GLDD continues capping, placing sand/Aquafate at ^{northern} ~~southern~~ edge of No Dredge zone.

1500: CH2M-Hill collects core sample of cap.

1620: GLDD concludes capping for today. AP offsite.

Amy P. Purnas
11/22/13Location LPR RM 10.9 Date 11/23/13Project / Client USACE - RM 10.9 oversight

Page 1 of 1

1000: GLDD resumes capping north of the utility crossing. AP onsite at Riverside Park.

- Two air samplers (dust monitors) set up, approx 200ft north & south of capping crew.

- No additional material brought onsite last night. No new material barges are expected until Monday night.

- Currently enough sand/Aquafate onsite for today and maybe 2 or 3 hours on Monday.

- Minor turbidity observed, drops out within 5 feet of placement.

1600: GLDD ends capping activities for the day. AP offsite for the day and relinquished field book to Ben Hammond.

Amy P. Purnas
11/23/13

Location CPR - RM 10.9 Date 11/25/13Project / Client CSACE - RM 10.9 oversight
Bj Hurd page 1 of 1

- 0820 - BH on site at Riverside Park
weather: ~24°F, clear
- work not yet started. Per Stan,
cold temperatures require some time for
equipment to start up
- 0950 - capping operations begin
- 1030 - pause; reason unclear
- 1100 - receive word from S. Kaczmarek
that AquaGate supply is done
and shipment not expected until
1500-1600; no more work today
- 1230 - Further discussion with Stan:
percentage AquaGate increased to
34% - 35% now.
- sand/AquaGate placement likely to
be complete by monday/tuesday
- 1330 - observed core samples prior to shipment
- took photos
- 1500 - Barges arrive at RM 10.9 with
sand and AquaGate
- 1630 - BH off site

Bj Hurd 11/25/2013

Location CPR - RM 10.9 Date 11/26/13Project / Client CSACE - RM 10.9 oversight
Bj Hurd page 1 of 1

- 0850 - BH on site at Field office in
Rutherford in preparation for surface
water transect sampling
weather: 37°F, overcast
- per Taylor, capping began at
~0745 this morning
- 0900 - at boat launch, about to depart
for RM 10.9
- ^{BH} waiting for OSE to finish
preparing YSE
- 0945 - depart for Buoy Z
- 1005 - noted that Buoy at transect Z
3 labeled #3 (mistake?)
note observed that capping is
still taking place 7' BH
- 1010: sample Buoy Z west, depth 4'
pH 7.60 temp 5.3°C turb 4.9 NTU
DO 10.6 mg/L sat 0.39 ppt
- 1022: sample Buoy Z center, depth 7'
pH 7.58 temp 5.3°C turb 10.5 NTU
DO 10.47 mg/L sat 0.41 ppt
- 1033: sample Buoy Z east, depth 35'
pH 7.50 temp 5.1°C turb 12.0 NTU
DO 10.60 mg/L sat 0.40 ppt

Location LPR - RM 10.9 Date 11/26/13
 Project / Client USACE - RM 10.9 oversight
Bryan Hurd ^{BH} page 2 of 34

- 1053: sample Buoy 3 west, depth 6.5'
 pH 7.50 temp 5.42°C turb 20.0 NTU
 DO 10.58 mg/L sat 0.41 ppt
- 1103: sample Buoy 3 center, depth 7.5'
 pH 7.60 temp 5.40 turb 26.7 NTU
 DO 10.40 mg/L sat 0.41 ppt
- 1112: sample Buoy 3 east, depth 6.5'
 pH 7.65 temp 5.36°C turb 32.7 NTU
 DO 10.42 mg/L sat 0.41 NTU
 note: Buoy at transect 3 labelled #2
- 1130 Arrive back at boat launch, return
 equipment/composite samples to CPB
 facility
- 1200 BH to lunch
- 1245 Processing samples w/ A. Salberg (CH2M)
 - filling sample bottles
- 1300 Collected CSW-2-13/126-L-C
 - analysis for PCB, Hg, Hg (diss.)
 SSC, dioxins, PCE/TCE
- 1400 BH to Riverside Park
 - weather: 40°F, rain
 - GLDD appear to be finishing
 for day
 - observed some material being

Location LPR - RM 10.9 Date 11/26/13
 Project / Client USACE - RM 10.9 oversight
Bryan Hurd ^{BH} page 3 of 34

- placed in same fashion as previous
 days (radial passes)
- sand / Aqua Gate are well-mixed
 - only enough Aqua Gate for approx.
 1/2 more day of work.
- 1430 GLDD finished for day due to
 weather.
- *note: 1200 discussion with S.
 Kaczmarek (cdm) about his statement
 that Aqua Gate is now being placed at
 ~35%.
- He said today that it is still
 more like 30% and there is no
 reason for the increase other than
 being conservative and using available
 material
- 1440 - Sean O'Hare (CDM Smith)
 on site to collect sample
 CSW-2-13/126-L-C and bring
 back to Edison for processing
 and shipment
- 1500 Per S. Kaczmarek, there will be
 no work tomorrow.
- 1600 pointed out to SK that

Location LPR - RM 10.9 Date 11/26/13Project / Client USACE - RM 10.9 oversightBryan Lund page 4 of 4

The barge movement schedule should be adjusted to have more AquaGate arrive at RM 10.9 before it runs out on Friday.

- S.K. will talk to Todd King (GCCD) and provide update at weekly meeting tomorrow.

1630 BH off site

Bryan Lund
11/26/2013

Location LPR - RM 10.9 Date 11/30/2013Project / Client USACE - RM 10.9 oversightBryan Lund page 1 of 2

0845 - BH on site at Riverside Park
weather: 26°F, clear

- capping not yet started
- activity on barge, centered around hopper

0900 Per e-mail from Mike Hopper (EPA), activity on 11/29/2013 was uninterrupted.

- no storm damage to capped area from 11/26-11/27 weather.
- still waiting for armoring stone analytical results
- AquaGate to be delivered on Monday afternoon/evening.

1015 Spoke with John Rolfe (dm) who said that delay is due to sand freezing in barge

1045 capping starts, proceeds for 30 minutes before barge needs to be moved upriver

1130 capping resumes
- sufficient mixing, minimal turbidity observed.

1220 Break for lunch

Location CPR-RM 10.9 Date 11/30/2013Project / Client OSACE - RM 10.9 oversight
Bryan Lund page 2 of 2

1245 - 1600* capping resumes interrupted
 * note at ^{BT} field notebook relinquished
 at field facility at 1500 before
 returning to RM 10.9. Work end
 time will be confirmed in daily
 report. Furthermore it is expected
 that the AquaGate supply
 will run out today. This will
 be confirmed as well.

1500 BT to Riverside Park.

- field notebook relinquished to
 Amy Picunas at CP6 facility

Bryan Lund
 11/30/2013

Location CPR-RM 10.3 Date 12/2/2013Project / Client OSACE - RM 10.9 oversight
Bryan Lund page 1 of 1

0830: BT on site for CDM Smith

weather: 40°F, overcast

- capping already started, north of
 Fire dept. boat launch

* was wrong on 11/30 - there is still enough
 AquaGate for 1/2 day work, per phone
 conversation with S. Kozumick at
 0745 this morning

1030: per John Rolfe, AquaGate will not
 be delivered until Wednesday PM
 because GLDD did not order enough,
 therefore no operations on Tuesday or
 Wednesday.

1100: Capping still proceeding.

- well mixed Sand/AquaGate
 - minimal turb. plumes

- 1230-1430: Mike Hoppe (EPA) on site

1430: Capping wrapping up for the day, out
 of sand (almost out of AG too)

- per SK, sand will be delivered tonight
 and GLDD may pile some bags of AG too
 in order to work tomorrow

1450 BT off site

Bryan Lund 12/2/2013

Location LPR-RM 10.9 Date 12/5/13
 Project / Client USACE Oversight - RM 10.9
 Page 1 of 2

- 1100: Field book relinquished to AP. AP onsite at Riverside Park to observe placement of active cap layer.
- capping underway, north of Community Center
 - GLDD applying cap in radial pattern
 - from visual observations, appears ^{mix is} heavy on the Aquagate, lighter on the sand.
 - minimal turbidity plumes observed.
 - observed GH2M Hill sampling boat returning with transect samples
 - weather: 50°F, misty. Foggy on the river.
- 1230: NODAP onsite for site visit: Jay Nickerson, Gary Nickerson, and Joel Pecchioli were onsite to observe placement of active cap layer. They asked questions about lift thickness, homogeneity of sand/Aquagate (ie does Aquagate clump together when placed), rounding of active cap due to tidal influences, turbidity issues, and foam created from cap installation. Overall they were pleased with the activities occurring.
- 1500: GLDD finished placement of sand/

Location LPR-RM 10.9 Date 12/5/13
 Project / Client USACE Oversight - RM 10.9
 Page 2 of 2

- Aquagate cap for RM 10.9. GLDD had approximately 35 bags of Aquagate remaining. CPG directs GLDD to place remaining Aquagate in the southern section.
- 1600: GLDD sets up at approximately STA 12+00, across from Riverside Park pavilion. Places remaining Aquagate in 1-inch lifts along shoreline.
- 1700: All remaining Aquagate expended, placement of active cap layer is complete.
- AP offsite for day.

Doney J. Francis
 12/5/13

Location LPR-RM 10.9 Date 12/6/13Project / Client USACE Oversight - RM 10.9

Page 1 of 1

0930: AP at ~~the~~ Field Facility to photograph the final 2 cap samples collected. Samples will be sent to laboratory for analysis today.
 CAP offsite for day.

James J. [unclear]
 12/6/13

Location LPR-RM 10.9 Date 12/11/13Project / Client USACE Oversight - RM 10.9

Page 1 of 2

1500: AP onsite at Riverside Park. Weather: Sunny, 20°F.

GLDS begins rolling out first section of geotextile fabric:

- CAT excavator has frame attached to bucket for rolling out fabric.
- Fuchs excavator installs Type A armor stone using "stone" bucket.
- Type A ~~stone~~ barge is at the site, a second barge holds rolls of geotextile fabric.
- Barges are anchored immediately south of "No Dredge Zone".
- The barges are ~~anchored~~ close to shore, the fabric begins rolling out as barges are moved back to channel.
- The Fuchs excavator then places stone on the fabric to weight it down.
- Before it's weighed down though, the fabric gets caught in wind & acts a bit like a sail. This results in excess fabric deployed & the fabric is deployed in a "S" shape rather than a straight line.

Location LPR- RM 10.9 Date 12/11/13Project / Client USACE Oversight- RM 10.9Page 2 of 2

- Additionally excess fabric is deployed on the shoreline (higher up on shoreline than design). GLDD will cut down the fabric during low tide tomorrow.

1600: GLDD stops work for the day. Only 1 panel installed. GLDD planning to refine installation tomorrow.

1610: AP offsite for the day.

Amly P. Francis
12/11/13

Location LPR- RM 10.9 Date 12/12/13Project / Client USACE- RM 10.9 oversightPage 1 of 1

1130: GLDD spends morning adjusting/testing out various fabric deployment scenarios.

1330: GLDD resumes fabric placement.

Weather: Sunny, 25°F

One panel deployed. Deployment did not go well. By 1400 GLDD removing panel from water.

1500: GLDD notifies S Kaczmarek that they will spend remainder of day repositioning & replanning how to install fabric. The plan is to implement the new procedures starting tomorrow morning.

1600: AP offsite for the day.

Amly P. Francis
12/12/13

Location LPR- RM 10.9 Date 12/13/13Project / Client USACE- RM 10.9 Oversight

Page 1 of 1

0800: AP onsite at Riverside Park. Weather:

Sunny, 25°F

0800-1400: No geotextile fabric was placed today.

GLDD spent the day repairing a winch:
discussing plans for placing geotextile fabric.1400: GLDD informs CH2M Hill that they are
done for today due to low tide.

1420: AP offsite.

Amy E. Thomas
12/13/13Location LPR- RM 10.9 Date 12/14/13Project / Client USACE- RM 10.9 Oversight

Page 1 of 2

0735: AP onsite at Riverside Park. Weather:

Light snow, cloudy. 25°F

0745: GLDD resumes geotextile placement.

GLDD set up a winch system yesterday,
using the winches to move inshore & offshore.GLDD had 2 ropes to tie off the panel
to hold the panel in place. GLDD thenlowered the panel just off water surface
(also observed a stabilizing bar weldedat the front of geotextile fabric panel).
rocks placed on fabric to anchor it. Thewinches pulled the barge back offshore
in a controlled manner.The process was much more controlled,
efficient & safe.0900: GLDD repositions to start installation
of a 2nd panel.

- The roll runs out of fabric
- Need to fix a winch that comes loose
from one of the anchors.

1030: GLDD is back in meetings with their
HQ to discuss better ways to install
the fabric. Will likely stop work soon for
the day due to increased snowfall.

Location LPR-RM 10.9 Date 12/14/13
 Project / Client USACE-RM 10.9 oversight Page 2

1000: AP offsite for the day - GDD has decided to stop work due to poor weather conditions.

AP relinquishes field back to Ben Hammond

Amey Jones
 12/14/13

Location LPR-RM 10.9 Date 12/16/2013
 Project / Client USACE-RM 10.9 oversight Page 1 of 1
Ben Hammond

0830: BH on site at Riverside Park

Weather: Sunny, Clear

- no work observed at RM 10.9

- BH to field office

0930: Received word from John Rolfe

that GDD are considering new methods to place geotextile and will

not be doing any installation until

an approach is identified.

1330: Discussion with J. Rolfe about options proposed by GDD:

1) Installing rebar across width of geotextile every 10-15 feet to help maintain slope

2) Floating geotextile panels onto water using bamboo frames, then sinking them with corner stone

3) Using more rigid geocomposite material than current fabric

- they will try option 1) tomorrow morning

1430 BH off site

Ben Hammond 12/16/13

Location CRR - RM 10.9 Date 12/17/2013

Project / Client USACE - RM 10.9 oversight
Brylund page 1 of 1

0830: BH on site at Riverside Park

Weather: mid 20s, snow

0900: GCDD attempting to install
geotextile panel south of the
no-dredge zone at high tide
by installing pieces of rebar
across the width of the panel
at ~10-15' centers- fabric pulled off barge using
tugboat and manipulated by
hand from shore- not really working - difficult to
manipulate fabric by hand -
tide is causing it to move out
of position.

1130 Attempt abandoned

- BH to field office in Rutherford

Brylund
12/17/2013

Location CRR - RM 10.9 Date 12/18/2013

Project / Client USACE - RM 10.9 oversight
Brylund page 1 of 20830: BH on site at Riverside Park to
check for in-river activity

- none observed

Weather: 20°F, Clear

- BH to field facility for weekly
progress meeting

1000: weekly progress meeting

- GCDD will soon attempt to
install new material, which is
the existing (old) geofabric ^{BH} ~~sewn~~
attached to a more rigid
geomaterial.- Hoping that this material will
lay flat and not fold over1100 At Riverside Park observing
installation attempt- geotextile/geocomposite mat'l pulled
out from roll (which itself is
suspended from Cat excavator)
using Fuchs excavator- Armer stone applied over
material1200 Still struggling to have the mat'l
lay flat

Location LPR - RM 10.9 Date 12/18/2013Project / Client USACE - RM 10.9 OversightBrylund page 2 of 2

- At one point armor stone was applied too much in the center of the material and the outside folded over
- Material is not rigid enough to be installed using the current method.

1300 Attempt abandoned.

- BH to field facility

1330 Per S. Kaczmarek (dmi) GLPD will draft a formal installation plan (by some new method) and present to CH2M/dmi. SK will share with EPA/CDM ASAP.

1530 Ray (CH2M) mentioned that there will be no installation attempts tmrw.
- will be removing the material from the failed attempts.

1630 BH emailed SK to inform that I will be on site to observe geotextile removal
- to ensure no damage to active layer

1700 BH off site

Brylund 12/18/2013

Location LPR - RM 10.9 Date 12/19/2013Project / Client USACE - RM 10.9 OversightBrylund page 1 of 2

0700 BH on site at Riverside Park

weather: ~~20s~~, clear

- observed GLPD removing geotextile panels from previous attempts and piling them on the barge

- panels removed simply by grabbing loose ends and pulling with excavator - armor stone not removed - fabric pulled out from underneath stone - possible securing effect?

0930 BH to field facility

1500 Returned to RM 10.9 with S. Kaczmarek to inspect at low tide

- Significant volume of stone remaining; needs to be removed.

SK agrees.

- no clear evidence of damage to active layer but it may be a good idea to collect cores and check that active layer is ≥ 10 inches
- mentioned this to SK - he was non-committal and pushed

Location LPR-RM 10.9 Date 12/19/2013Project / Client USACE-RM 10.9 oversight
Bjornlund page 2 of 2

back on 10" requirement, saying that settlement would have occurred.
- either way, the greater risk of damage to the active layer will be when GLDD return to remove the armor stone

1530 per S.K. there will be no in-river activity until Monday, Dec. 30th
- GLDD will be submitting installation plans by Monday, 12/23 and Stan will share with EPA/CDM

1600 ASAP

~~1600~~ BH at site

Bjornlund
12/19/2013

Location LPR-RM 10.9 Date 2/26/2014Project / Client USACE-RM 10.9 oversight
Bjornlund 1 of 2

0815- BH on site at Riverside Park

weather: ~25°F, clear

0900 - Received field notebook from John Rolfe, whom Amy Pinnas gave the field book yesterday to give me.

- AEP was on site 2/24-2/25, observed GLDD setting up, ~~so~~ geotextile installation did not begin

- per J.R., they are waiting for a fuel tank delivery on the barge and will begin ~ 0930.

1000 - Spoke with AEP on phone, told her that work has not started yet but probably will soon.

1030 - GLDD began laying geotextile at northern end of capping area (32+00)
- tied fabric to shore at 3 points
- lowered sinking bar assembly
- unrolled fabric by moving Poseidon barge away from shore, after placing armor stone

1115 - note that they are throwing sand bags to weigh down the fabric

Location LPR - RM 10.9 Date 2/26/2014Project / Client USACE - RM 10.9 overnightBullhorn 2 of 2

that will be overlapped by the next piece.

1200 - fabric appears to be laying flat, the entire panel has been unrolled, now placing the last corner stone
1230 finished panel

- BH to CPG facility for call
1300 weekly meeting/call at facility

- Reviewed morning's work.
- GLDD stated they need to trim trees and find a different way to lower/raise the sinking bar assembly that doesn't involve having someone on a ladder.

1345 Per Stan, no more fabric installation is planned today.

1530 Observed GLDD setting up for tomorrow.

1600 BH off site

[Signature]
2/26/2014

Location LPR - RM 10.9 Date 2/27/2014Project / Client USACE - RM 10.9 overnightBullhorn 1 of 3

0930 - BH on site at Riverside Park
weather: ~20°F, overcast

- GLDD not laying geotextile yet
- observed setting up fabric roll

0930 - Began work immediately south of yesterday's work area.

- Followed same procedure as yesterday's work, attaching fabric to shore at 3 points. a wooden 4x4 has been seen attached to the end of the panel to maintain its shape at the edge.

1005 - placed corner stone, moved barge out

1035 - moved out another few feet
- out ~30' from shore

* 1115 - as corner stone was being loaded into panel, all three ropes connecting the panel to the shore snapped then the last ~15' of panel unspooled from the barge and fell into the river. Work has stopped. GLDD will need to figure out if this piece of fabric can be left

Location CPR-RM 10.9 Date 2/27/14Project / Client USACE-RM 10.9 Oversight
Bjorklund 2 of 3

in place or not. It's unclear where
A went.

1130- BH to lunch/field facility.

1330- Received word from Stan K. that
there was actually a slope failure
beneath the geotextile that caused the
Fabric/Stone to slide down the
steep slope and into the river channel.
So the Fabric is gone from the
placement location.

- GLDD found that the riverbed
elevation in this area is low now.
Sand/AquaGate may have been
lost. They will move further south
to continue work. Elevations return to
normal a bit further south.

1420- BH to Riverside Park

- observed GLDD moving barge
and setting up for tomorrow's work.

1530- BH to Field Facility to ask
Stan about today's Fabric.

- asked whether they will retrieve
it (concern about leaving Fabric floating
in the river). He responded that
they will wait for GLDD to probe the

Location CPR-RM 10.9 Date 2/27/14Project / Client USACE-RM 10.9 Oversight
Bjorklund 3 of 3

area before making any decisions.
Said the Fabric/Stone could be
stabilizing the area. Said that
Fabric probably doesn't pose
navigation-related risk.

1600 BH off site

Bjorklund
2/27/2014

Location LPR - RM 10.9 Date 2/28/14

Project / Client USACE - RM 10.9 oversight

Bryant 1 of 2

- 0830 - BH at site of Riverside Park
 weather - 120F, clear
 - GLDD setting up around Station 31+00, not yet started
- 1000 - Began installing geotextile panel
 - no issues noted - ^{BH} relatively flat placement. Northern edge wants to fold under a bit. GLDD using ropes to hold it during armor stone placement.
 - Some turbidity from armor stone placement but not much.
 - How will they overlap with next panel (not yet placed) to the north? mentioned to Gary (CH2M) and John Rolfe. This issue is present because they skipped a few panels following yesterday's washout.
- 1200 - Finished panel successfully.
 - BH to lunch
- 1230 - BH at Riverside Park
 - GLDD prepping for 2nd panel
- 1330 - GLDD loading more stone onto barge

Location LPR - RM 10.9 Date 2/28/14

Project / Client USACE - RM 10.9 oversight

Bryant 2 of 2

- 1430 - GLDD still prepping for 2nd panel
- 1500 - Per John and Gary, GLDD notified them that there will be no more geotextile installation today - it is too late
 - JR and GF ^{BH} ~~not~~ express displeasure with decision, say GLDD should have started panel at least an hour ago
- 1530 - BH off site

Bryant
 2/28/2014

Location LPR-RM 10.9 Date 3/1/14Project / Client USACE-RM 10.9 oversightBryant

- 0900 - BH on site at Riverside Park
- weather 30°F, clear
- 0920 - GLDD begin placing geotextile panel
- Ropes tied to both corners and center of panel edge tied off at shore corner stone placed
- Poseidon barge moved away from shore
- 0946 - a 3 feet of overlap w/ yesterday's panel
- 1000 - Fabric laying relatively flat (this panel is 69' long)
- 1050 - Finished 1st panel, will reposition for 2nd
- BH off site for lunch and to e-mail Friday's daily report
- 1215 - BH on site
- GLDD begin second panel at ~1225
- mentioned to J. Rife that the upstream edge of the panels pull to the south as the barge moves 40-50' from shore
- GLDD to make increased effort to keep the fabric straight using ropes.

Location LPR-RM 10.9 Date 3/1/14Project / Client USACE-RM 10.9 oversightBryant

- 1400 - GLDD completed 2nd panel
- ~3' overlap observed with previous panel
- asked J.R. if the bays have been recalibrated yet, he said there was a CH2M email about it recently, & if it hasn't been resolved by Wednesday's meeting it should be brought up again
- 1405 - Mentioned minor H&S concern: men holding onto ~~fab~~ ropes that are attached to the fabric. Could get pulled into water? JR said it is unlikely unless they had rope wrapped around hand/wrist. I generally agree.
- 1430 - Per GF (CH2M) they will install 3rd panel today. BH to leave field notebook in facility now (while it is unlabeled) for M. Passaro to retrieve tomorrow. Will describe outcome of 3rd panel in report.

Bryant 3/1/14

Location LPR - RM10.9 Date 3/2/14Project / Client USACE - RM10.9 OVERSIGHTMaudie L Passano

- 0930 MP ONSITE AT RIVERSIDE PARK.
 → WEATHER = 40°F, CLOUDY
 → SPOKE WITH GARY (HILL) GLDD HAS NOT BEGUN TO PLACE THE GEOTEXTILE FABRIC THIS MORNING.
 → ONSITE OPERATIONS CURRENTLY INCLUDE GETTING MORE STONE FROM THE "STYMIE" BARGE.
- 1000 STAN (DE MAXIMIS) IS ONSITE - GLDD IS STILL TRANSFERRING ROCK FROM THE SCOW TO THE BARGE.
 → PROJECTED START TIME IS 1100
 → SURVEY BOAT IS IN THE SHOP UNTIL ~~WEDNESDAY~~ TUESDAY, SLOPE FAILURE NEAR STATION 32' IS STILL UNDER INVESTIGATION UNTIL AREA CAN BE RESURVEYED.
- 1050 ROY (HILL) STATED THAT A CABLE LINE ON THE BARGE HAS BROKEN AND WILL NEED TO BE WELDED BEFORE WORK BEGINS. WORK WILL NOT START FOR ANOTHER 45 min - 1 hr.
 → IT HAS NOT BEEN DECIDED YET WHETHER ADDITIONAL PANELS WILL BE PLACED TODAY OR IF ADDITIONAL ROCK WILL BE PLACED ON PANELS FROM PREVIOUSLY IN THE WEEK.
- 1100 THE BACK UP STORM WATER PUMP CAME

Location LPR - RM 10.9 Date 3/2/14Project / Client USACE - RM10.9 OVERSIGHTMaudie L Passano

- 1100 ON WHILE WE WERE ONSITE. WATER IS BEING DISCHARGED AT A RATE OF 16 cfs. THERE IS POTENTIAL OF THIS DISCHARGE WASHING AWAY SOME OF THE ACTIVE LAYER THATS BEEN PLACED. STAN HAS TRIED TO WORK WITH THE TOWN ENGINEER TO TIME DISCHARGE WHILE WORK IS NOT TAKING PLACE, SO THE PANELS CAN BE PLACED WITH MINIMAL DISTURBANCE. STAN IS OFFSITE.
- 1130 WORK HAS STILL NOT STARTED BARGE IS BEING MOVED.
- 1155 STAN (DE MAXIMIS) AND GARY (HILL) BOTH ONSITE AT RIVERSIDE PARK. SPOKE WITH CREW, STILL 30-40 min AWAY FROM LAYING ANY PANELS.
- 1210 ALL OFFSITE FOR LUNCH BREAK.
- 1235 M. PASSANO BACK ONSITE
- 1240 STAN (DE MAXIMIS) BACK ON SITE. AND GARY (HILL)
- 1245 CREW HAD TO RE-LOCATE BARGE DUE TO ISSUES WITH BOTTOMING OUT. A NEW BARGE HAS TO BE BROUGHT OVER BEFORE WORK STARTS AND CREW IS CURRENTLY ON LUNCH.
- 1300 STAN, GARY, AND MP OFFSITE TO FIELD ^{OFFICE} ~~DISPATCH~~. CREW WILL NOTIFY US WHEN/IF WORK BEGINS.

Location LPR - RM10.9 Date 3/2/14Project / Client USACE - RM10.9 OVERSIGHTMercedita L. Passaro

- 1420 RECEIVED WORD FROM STAN THAT NO WORK ^{IS} ~~WOULD~~ BE TAKING PLACE TODAY. GLDD IS GOING TO BE MOVING ROCKS FROM ONE BARGE TO ANOTHER WITH A SMALLER DRAFT TO AVOID BOTTOMING OUT IN THE FUTURE. IT HAS TAKEN UNTIL NOW TO RECEIVE ANY COMMUNICATIONS FROM GDD THAT WORK WOULD NOT TAKE PLACE TODAY.
- 1440 M. PASSARO OFFSITE.

Mercedita L. Passaro
3/2/14

Location LPR - RM10.9 Date 3/3/2014Project / Client USACE - RM10.9 OVERSIGHTBr. Hund 1 of 2

- 0830 - BH on site at Riverside Park
 weather: 20°F, cloudy
 - no work being performed yet
 - BH to field facility
 - Heard they will start mid-morning, waiting for high tide to pass
- 1030 BH to Riverside Park
 - Observed GLDD repositioning barge to begin work soon.
 - They have been delayed by river current
- 1130 Begin installing geotextile panel
 - 2-3 foot overlap between panels
- 1250 Finished panel
 - BH to lunch
- 1410 GLDD began 2nd panel
- 1520 Finished 2nd panel
- 1600 S. Kaczmarek said Survey boat will be here later this week to survey survey area where geotextile/stone has been placed already
- 1615 GLDD began 3rd panel
 - They are beginning to move

Location LPR-RM 10.9 Date 3/3/14Project / Client USACE - RM 10.9 oversightByrthud 2 of 2

with much greater pace/efficiency

1705 GLDD finish 3rd panel

1715 bucket operator applying additional armor stone while deckhands clean up for the day on the barge

1730 BTH off site

Byrthud
3/3/2014Location LPR-RM 10.9 Date 3/4/2014Project / Client USACE - RM 10.9 oversightByrthud 1 of 2

0900: BH on site at Riverside Park

weather: 200F, cloudy

-GLDD performing maintenance, not yet placing geotextile

-BH to CP6 facility

1000: Heard from Gary (CH2M) that

11-11:30 is a likely start time today and that they currently have only 2 geotextile panels on the barge - more will be delivered later today

1100: BTH to park, observed GLDD

moving armor stone to main barge

-Mike Hopp (EPA) is on site

-no USDEP visit today, currently no reschedule date

*note: heard from John Rolfe (dm) that

OSHA was on site this morning interviewing workers about the accident in January.

1300: Another delay - need to pull up and reset an anchor for the barge it had come loose

1425 GLDD begin installing a panel
- minimal turbidity

Location: LPR-RM 10.9 Date 3/4/2014

Project / Client USACE-RM 10.9 oversight
Bygn Howard 2 of 2

- sufficient overlap observed ^{BH} in visible portions near shore

1500 MH mentioned H & S concern:

stone in open bucket becoming unstuck/unfrozen and falling on or near workers:

- workers seem to be aware not to stand under bucket, but concern is valid

1525 Panel installation finished

1545 bucket operator placing final stone over panel

- per John, GLDD are retrieving the panels that were delivered today

1615 They may do another panel but probably not

- JR off site, MH was off site @ 1530

1630 Unlikely they will begin another panel today.

- BH off site

Bygn Howard
3/4/2014

Location LPR-RM 10.9 Date 3/5/14

Project / Client USACE-RM 10.9 oversight
Bygn Howard 1 of 2

1000 BH on site at Riverside Park
weather: 35°F, some clouds

- GLDD are just beginning to install panel 28-N

- minimal turbidity

1100 Finished installing panel

- BH to lunch

1145 GLDD observed many barge for next panel

1245 They are going to start 27-N soon.

- BH to field facility for weekly meeting

1300 Weekly progress meeting notes

- Buoy 5 needs to be redeployed

- probably no geotextile placement on Monday/Tuesday

- Sand/AquaGate shipment to RM 10.9 to repair damaged areas

1345 BH to park

- observed significant discharge from pump station during 27-N placement - did not negatively impact the installation

Location LPR - RM 10.9 Date 3/5/14Project / Client USACE - RM 10.9 oversightBygones2 of 2

1400 Finished panel 27-N
 1530 Started panel 26-N
 1620 Finished panel 26-N
 1700 Started panel 25-N
 1745 Finished panel 25-N
 1800 Bt off site

Bygones
3/5/2014

Location LPR - RM 10.9 Date 3/6/14Project / Client USACE - RM 10.9 oversightBygones

1245 Bt on site at Riverside Park
 Weather: 30°F, Sunny 1000 SH
 - Arrived at field facility at ~~0930~~ 1000 SH
 and heard from J. Rolfe (dm) that
 GLDD will not begin placing geotextile
 until 1200-1230
 1300 Per J.R., the latest estimated
 start time is 1500
 1345 M. Hoppe (EPA) on site
 1400 Per J.R. they're going to start
 shortly - have decided to
 wait to move an anchor until
 after they get a panel done.
 - this morning they were transferring
 stone and geotextile rolls onto
 the barge.
 1435 Spoke to S. Bidney, who is
 covering oversight tomorrow.
 - Bt to retain field book for Saturday
 1440 At RM 10.9 today.
 Poseidon Barge, main barge, rock
 barge, then downriver another barge,
 2 ^{SH} tug, 2 seals
 1445 GLDD begin installing panel 24-N

88 Location LPR-RM 10.9 Date 3/6/14

Project / Client USACE - RM 10.9 Oversight

By Hand

1455 According to Roy (CH2M) they are setting the fabric with an extra 5 feet at the shore beyond where it is required to be, in order to be conservative. They are similarly conservative at the other end.

- Observed that they continue to use lengths of rebar to help keep fabric from folding

1535 M. Hoppe off site

1550 Finished Panel 24-N

1630 GLDD observed moving barge for next panel

1700 By Hand off site

By Hand 3/6/14

89 Location LPR-Rm 10.9 Date 3/7/14

Project / Client Sharon Butney

Sharon Butney

11:30 S. Butney onsite in Park GLDD doing prep work on barges positioned in River adjacent to the Lyndhurst Community Center. Getting sand bags

11:45 positioning barges - Tugboat Dory tied barges working on cable / winch line pulling out with tugboat & winding back up

12:45 Pull geotextile over Roller bar tied off to it

13:15 GLDD goes inside on barge - everyone off deck

13:45 SB went to Field Facility, Met Stan Kaczmarek. He reported there was a problem with an anchor line GLDD was fixing this morning.

He mentioned he had the survey results from the area that collapsed and he was working on the report.

1500 Returned to the RM 10.9 site. GLDD Loading Gravel Stone on to the barges in preparation for laying Geotextile

1550 Stan contacts GLDD will not lay geotextile today. Some rock in barge is broken will spend the rest of the day breaking it apart. GLDD will start @ 8 AM + 1400 tomorrow. SB Butney offsite

SB 3/7/14

Location LPR-RM 10.9 Date 3/8/14
 Project / Client USACE-RM 10.9 oversight
Byrth

0830: BH on site at Riverside Park

Weather: 40°F, clear

- Stan Koczmarek is here, reported that GCDD are having issues with panel 23-N that are preventing them from moving onto 22-N
- The incoming tide caused the exposed portion of 23-N to fold up over itself, so they need to lay it back down before they can proceed

0930: Efforts unsuccessful so far - they'll wait until after high tide this afternoon then try again in the outgoing tide

- Stan says some of the rebar on 23-N may have actually bent

1000: BH off site: if they are successful this afternoon, SK will call and I will return to site to observe 22-N installation

1430: Received word from SK that GCDD were not able to fix 23-N manually from the barge

Location LPR-RM 10.9 Date 3/8/14
 Project / Client USACE-RM 10.9 oversight
Byrth

1430: SK speculates that divers will be

- required to complete this work
- will require a dive plan, which takes time for approval
- earliest that this could happen is Wednesday 3/12
- Monday/Tuesday will be spent on maintenance and removing the armor stone/fabric that was placed in December

Byrth
3/8/14

Location LPR - RM10.9 Date 3/10/14Project / Client USACE - RM10.9 OversightByr Howard

0930: BH on site at Riverside Park

Weather: 40°, cloudy

- no activity observed, barge still near pond 23-N

- BH to field facility

1100: Received word that GLDD are working on relocating equipment to the area south of the no-dredge zone so they can proceed with armor stone/fabric removal, but that the excavator broke down and needs repairs

1200: Per John (~~GLDD~~^{BH}) (dm) the excavator is fixed, so now they can pull up the barge speeds

1300: Observed main barge, rock barge, two scows (one has sand/Agricote that was brought up recently) positioned midway between 23-N and south of no-dredge

1630: Observed equipment stopped near removal area south of no-dredge
- BH off site

Byr Howard 3/10/14Location LPR - RM10.9 Date 3/11/14Project / Client USACE - RM10.9 OversightByr Howard

1200: BH on site at Riverside Park to observe armor stone/fabric removal south of no-dredge zone

- per text from JR last night, they waited until 1200 today because low tide was needed to mark out the locations where lots of rock was deposited

- operator using CAT excavator with rock sifting fork

- He's having a hard time telling where the rock is - most of it is submerged - he's getting some guidance from the survey boat

1245 - He grabs bucket (or fork) full of material (rock/active layer) then shakes it out to release the active layer - active layer is not removed but it is definitely disturbed

1300 Observed several pieces of fabric being extracted also

1330 Stopped for now: waiting for tide to come in

Location LPR - RM 10.9 Date 3/4/14Project / Client USACE - RM 10.9 oversightByl Hnd

- 1440 Resumed operations
- needed tide to come in so they could move closer to shore
- 1515 Pause to let survey boat into area to identify high spots
- 1600 now waiting for tide to come in more
- 1630 resumed
- 1745 Appear to have finished;
equipment being moved upriver
note: stone removed from river was added to pile that will be used in current fabric/stone installation.
- 1800: Btl off site

Byl HndLocation LPR - RM 10.9 Date 3/12/14Project / Client USACE - RM 10.9Byl Hnd

- 0900: Btl on site at Riverside Park
Weather: 50°F, some clouds
- possibility that Dive Plan was set into motion this morning, but no activity observed
- Btl to field office
- 1000: Per S.K., the Dive Plan is awaiting approval.
- 1100: Heard from Stan that CPG/GLDD would like to continue operations by just installing 22-N overlapping the folded-over portion of 23-N. Would like to discuss during 1300 meeting and begin this afternoon.
- Btl send email to CDM relaying this plan and asking if there are concerns
- 1300 - Btl to Park to observe GLDD attempt to unfold 23-N (last attempt before just continuing)
- also listening to weekly conference call
- 1330 - observed GLDD using hook to

Location LPR - RM 10.9 Date 3/12/14
 Project / Client USACE - RM 10.9 oversight
By Hand

1320 pull at fabric, and tossing sandbags
 - moving position barge back from shore
 - may have been successful

1325 - Per Ray (CH2M) A was successful
 - strong outgoing tide caused fabric to unfold and lay down once picked up with hook

1415 - GLDD started installing panel 22-N

- ~3 foot overlap observed with 23-N

- no rebar used this time - installation at low tide so very minimal current

1505 Finished panel 22-N

note: M. Lloppe (EPA) on site starting at ~1350

1515 - per Stan, no more installation today - tide is going to pick up soon, it will be too difficult

1530 BH, AH off site

By Hand 3/12/14

Location LPR - RM 10.9 Date 3/13/14
 Project / Client USACE - RM 10.9 oversight
By Hand

0900: BH on site at Riverside Park
 weather: 22°F, cloudy

- no activity yet at RM 10.9

- waiting for equipment to warm up

1000 Per Stan, delay is also due to severe wind making it difficult for crew to be on barge

1030 GLDD begin installing panel 21-N

- noted that there is more sand in the armor stone recently, compared to earlier. It is causing some additional turbidity that migrates as far as ~100' from placement location before dissipating

1130 Finished panel 21-N

- BH to field facility

1200 Noted that Barge #5 is up and running (test and pH) on the monitoring website

- mentioned to Stan that the website shows high turbidity currently (over 100 NTU) at multiple bays. He responded that it is probably

Location LPR - RM 10.9 Date 3/13/14Project / Client USACE - RM 10.9 oversight
Byrland

1200 due to high flow through
Dandee Dam due to snowmelt.
It is unlikely that fabric installation
activities have resulted in turbidity
exceedances.

1330 GLDD begin installing panel 20-N
- good overlap (~3-4') observed
with 21-N

1430 Finished 20-N

1440 Walked with S.K. to south of
no-dredge to observe rock removal
area at low tide

- still some rock there; will
probably need to be retested

1500 Received word that no additional
panels will be placed today

- BT to field facility, will leave
field notebook for M. Passano for
3/15/3/16. M. Hoppe (EPA) will be
on-site tomorrow.

Byrland
3/13/14

Location LPR - RM 10.9 Date 3/15/14Project / Client USACE - RM 10.9 oversight
Meadell L. Passano

0930 MP onsite at RIVERSIDE PARK.

→ WEATHER: CLOUDY, 50°F

→ NO ACTIVITY YET AT RM 10.9

0930 Spoke with Roy (Hill) who said work
would not begin until later in the
AFTERNOON.

→ EQUIPMENT IS CURRENTLY BEING
MOVED AROUND. ROCK IS BEING
READJUSTED IN THE SCOWS.

→ CREW IS ALSO FIGHTING A VERY
STRONG TIDE.

1100 J. ROLFE onsite. FROM DE MAXIMIS.

→ WORK HAS STILL NOT STARTED FOR
THE DAY.

1230 J. ROLFE OFFSITE FOR LUNCH.

1245 J. ROLFE BACK onsite.

1250 BARGE OF ARMOR STONE IS BEING
MOVED BACK INTO PLACE.

1320 GLDD IS BEGINNING TO MOVE INTO
PLACE TO ATTEMPT LAYING DOWN ^{PANEL}
17. _{SHEET}

1355 CREW HAS BEEN SPENDING TIME NEETING
A PIECE OF ANGLE IRON CONNECTED TO
CHAINS TO KEEP TO PANEL FROM FLYING

Location LPR - RM 10.9 Date 3/15/14Project / Client USACE - RM 10.9 OVERSIGHTMichael L Passaro

- 1355 BACK INTO THE WIND. ANGLE IRON IS ACTING AS A WEIGHT.
- 1432 CREW (GLDD) BEGINS INSTALLING PANEL 17-N.
→ GOOD OVERLAP ("3') OBSERVED WITH PANEL 17-N.
- 1500 17-N IS COMPLETE "30' PANEL.
- 1510 GLDD IS REPOSITIONING THE BARGE.
- 1540 CREW (GLDD) BEGINS INSTALLING PANEL 16-N.
→ GOOD OVERLAP ("3-4') OBSERVED WITH PANEL 16-N.
- 1625 16-N IS COMPLETE "40-50' PANEL.
- 1650 CREW (GLDD) BEGINS INSTALLING PANEL 15-N.
→ GOOD OVERLAP ("3') OBSERVED WITH PANEL 15-N.
- 1655 MIKE (HILL) ONSITE.
- 1715 MIKE (HILL) and JOHN (DE MAXIMIS) ARE OFFSITE
→ GLDD BEGAN LAYING PANEL AND AT "20' PANEL STARTED TO PULL DUE TO TIDAL SHIFT. ALL EXPOSED PANEL IS COVERED WITH ARMOR STONE BUTT

Location LPR - RM 10.9 Date 3/15/14Project / Client USACE - RM 10.9 OVERSIGHTMichael L Passaro

- 1715 GLDD WILL NOT BE COMPLETING PANEL 15-N UNTIL TOMORROW MORNING.
- 1720 M. PASSARO OFFSITE FOR DAY.

[A large handwritten signature, "Michael L Passaro", is written diagonally across the page, starting from the bottom left and ending near the top right. The date "3/15/14" is written near the end of the signature.]

Location LPR - RM 10.9 Date 3/16/14Project / Client USACE - RM 10.9 OVERSIGHTMeredith L Passaro

0830 M. PASSARO ONSITE AT RIVERSIDE PARK.
 → WEATHER: CLEAR 32°F
 → CREW (GLDD) JUST COMPLETED PANEL 15-N.
 → SPOKE WITH ROY (HILL) WHO SAID THAT GLDD WOULD SPEND THE MAJORITY OF THE DAY RELOCATING ANCHORS AND BARGES. THE CREW IS NOT EXPECTING TO GET ANY PANEL COMPLETED TODAY. INSTEAD THEY WILL RELOCATE EQUIPMENT AND PLACE MORE ARMOR STONE IN AREAS THAT NEED IT SPECIFICALLY PANELS 35 AND 36.

0900 STAN (DE MAXIMIS) ONSITE

0930 M. PASSARO AND STAN OFFSITE TO FIELD FACILITY.

1140 M. PASSARO AND STAN (DE MAXIMIS) BACK ONSIGHT AT RIVERSIDE PARK.

→ CREW (GLDD) HAS MOVED BARGES UPRIVER AND SET UP A NEW ANCHORING PLACE.
 → RACK IS CURRENTLY BEING LOADED ONTO A BARGE.
 → NO ADDITIONAL ACTIVITY.

Location LPR - RM 10.9 Date 3/16/14Project / Client USACE - RM 10.9 OVERSIGHTMeredith L Passaro

1315 JUST RECEIVED CONFIRMATION FROM GLDD THAT NO MORE WORK WILL TAKE PLACE TODAY. THE ANCHORS ARE BEING SET.

1320 M. PASSARO OFFSITE FOR THE DAY.

Meredith L Passaro
 3/16/14

Brynn Lund

page 1 of 2

1230: B4 on site at Riverside Park

Weather: 35° F, cloudy

- no fabric installation today until ~1530

- observing GLDD rearrange barges and install winch system to control barge movement

- System anchored at shore with CAT backhoe near fire dept. boat launch and with anchor at edge of river.

1330: B4 to Field Facility

1645: B4 return to park to observe panel installation

- was delayed because tide has not slackened yet.

1745: GLDD began installing panel 14-N

- 2-3' overlap observed with 15-N

- some turbidity, not severe, during armor stone placement
- winch system effective at

Brynn Lund

page 2 of 2

Moving entire setup away from shore to unroll the fabric

1845 GLDD finished installing panel 14-N

- operator adding final armor stone as deckhands clean up for the day

1900 B4 off site

Brynn Lund

3/17/14

Location LPR - RM10.4 Date 3/18/14Project / Client USACE - RM10.4 oversight
Brynn page 1 of 2

0900: BH on site at Riverside Park
 Weather: 30° F clear
 - GLDD about to begin panel installation

0915: Begin panel 13-N
 - 2-3' overlap with 14-N
 - panel is ~100' long
 - they will do this panel then
 wait for next slack tide
 (~1600) for next panel.

1015 - Finished panel ~~13~~ 13-N
 - BH to field office

1800 Return to Riverside Park

1625 GLDD begin panel 12-N
 - Stan K. mentioned that he has
 minor H & S concerns about
 the ~~low~~ cables ~~at~~ connected
 to the winch system anchors;
 what if they broke? Hazard
 to bystanders on shore?
 - said he would speak with
 GLDD about it.

1715 Finished 12-N
 - low tide; not enough water
 for operator to finish

Location LPR - RM10.4 Date 3/18/14Project / Client USACE - RM10.4 oversight
Brynn page 2 of 2

Stone application near shore.
 - will finish it tomorrow during
 11-N installation

1745 BH off site

Brynn
3/18/14

Location LPR-RM10.9 Date 3/19/14Project / Client USACE-RM10.9 oversight
Sign Hand page 1 of 1

0930 - Bt on site at Riverside Park

- weather: 35° cloudy

- waiting for tide to come in before they can get close to shore and begin work

1030 observed GLDD fixing a pin on the excavator bucket

1045 Began installing panel 11-N

- also applying rock on 12-N

- minimal turbidity

- good overlap generally

1200 Finished panel 12-N

- Bt off site for weekly meeting

1300 weekly meeting at PG Facility
some items of interest:

- Bay 5 has been fixed and is back in the river.

- Starting tomorrow 1 panel each day.
installation will be at high tide

- No work Thursday 3/27?

1615 Per J.R. there will not be a 2nd panel installed today; Bt off site

Br Hand 3/19/14Location LPR-RM 10.9 Date 3/20/14Project / Client USACE-RM10.9 oversight
Sign Hand page 1 of 2

0900 Bt on site at Riverside Park

- weather: 40° cloudy

- GLDD observed moving barge into position for panel 10-N

0945 - GLDD began installing panel 10-N

- some turbidity observed during stone placement; does not migrate far

- northern edge of fabric getting pulled to south w/ current.
may effect overlap? Still probably at least 2 feet of overlap

1000 Asked John Rolfe about Type B stone - haven't seen it yet even though Stan sent out a GLDD progress figure yesterday that showed them having already passed some high subgrade areas.

- He found out from Roy that they just started using it near the shore; will confirm.

Location LPR-RM 10.9 Date 3/20/14Project / Client USACE-RM 10.9 oversight
Bry Hund page 2 of 21050 - GLDD finished installing 10-N
- note: M. Hoppe (EPA) on site at
~1030

- operator now loading stone onto panel
- this is the only panel to be installed today

1115 BH off site to Edison office

Bry Hund
3/20/14

Location LPR-RM 10.9 Date 3/21/14Project / Client USACE-RM 10.9 oversight
Bry Hund page 1 of 2

1000: BH on site at Riverside Park

- weather: -45°F, cloudy

1025: GLDD start installing panel 9-N

- Type B Stone observed over the ~3 feet of fabric nearest the shore

- Sufficient overlap observed with panel 10-N

- visible turbidity plumes from unwashed armor stone; dissipate within ~100'
- lowering of sinking bar assembly performed smoothly

1115 - GLDD finish installing 9-N

- may do a 2nd panel today
- BH off site for lunch

1200 GLDD began panel 8-N

- current is still more or less slack so they decided to attempt a 2nd panel

note: Stan K. mentioned earlier that he was in a meeting with GLDD and CH2M earlier and they are working on committing to an end date of May 8th.

Location LPR - RM 10.9 Date 3/21/14

Project / Client USACE - RM 10.9 oversight
Bgr Hand page 2 of 2

Goal is to have everything complete and to demobilize by then, and to penalize GLDD if this is not met.

- Once Firm, a schedule will be delivered to EPA/CDM.

1210 Type B armor stone observed at panel 8-N during installation.

1305 Finished panel 8-N.

- BH to CPG Facility

1600 BH at park to observe work area at low tide

- Type B stone appears to meet Spec.
- only applied on 8-N, 9-N, 10-N
- was required further north (14-N - 17-N)
- may need to return there; will mention to Stan.

1630 BH off site

Bgr Hand 3/21/14

Location LPR - RM 10.9 Date 3/22/14

Project / Client USACE - RM 10.9 oversight
Bgr Hand page 1 of 2

1000: BH on site at Riverside Park

weather: 46⁸⁹ 45, clear

- GLDD observed moving barge into position to begin fabric installation

1045: Cement is slackening - will probably begin shortly

1100: Begin installing panel 7-N

- 2-3' overlap observed with 8-N

- not much trouble keeping ~~current~~ ^{BH} fabric flat today; mild current

1135: Some problems with rollers in the water near RM 10.9

- a crew of high schoolers might have run into the barge - weren't watching where they were going

- no incident, but Stan called boat club to ask that they stay clear of this area until mid-May.

1215: GLDD finished 7-N

- will wait to ^{BH} hear from

Location LPR - RM 10.9 Date 3/27/14Project / Client USACE - RM 10.9 oversightBrynn page 2 of 2

Roy (CH2M) whether a 2nd panel will be attempted today

1230 Per Stan K. there will not be another panel today.

1245 BH off site

Brynn
3/27/2014

Location LPR - RM 10.9 Date 3/23/14Project / Client USACE - RM 10.9 oversightBrynn page 1 of 1

1100: BH on site at Riverside Park

- weather: 40° F, cloudy
- GLDD observed performing maintenance on barge

- current is still moving, probably will need to wait at least another hour.

1200 - observed GLDD moving the CAT 420F, which is the north anchor for the winch system, to the south

1245 - GLDD begin installing panel 6-N

- some turbidity plumes from sand on armor stone; not substantial

- ~2 foot overlap with 7-N

1300 Per J. Ralfe (Am.) it is possible that there will be work on Thursday 3/27, contrary to earlier plans - will be finalized early this coming week.

1410 Finished installing 6-N

1430 ~~Head there~~ BH off site

Brynn 3/23/14

Location LPR - RM 10.9 Date 3/24/14Project / Client USACE - RM 10.9 oversightByrland

- 1330 BH on site at Riverside Park
weather: 35° clear
- 1400 Observed GLDD repositioning
winch system anchors (moving CAT)
- 1410 Performing some tree trimming
- branches hanging out over
work area need to be removed
to place stone; removed with
excavator bucket.
- 1420 GLDD begin installing geotextile
panel S-N.
- 1425 Mentioned to Stuen that I
observed, on the monitoring
website, that multiple buoys
are reporting negative turbidity
values
- He did not know this - sent
messages to CH2M/GLDD to have
it resolved ASAP.
- 1445 Panel install ongoing
- some effort req'd to maintain
overlap w/ panel 6-N - have
to manually pull on northern
edge.

Location LPR - RM 10.9 Date 3/24/14 117Project / Client USACE - RM 10.9 oversightByrland

- 1535 Finished installing panel S-N
- 1550 Observed GLDD moving barges
around - no more fabric
installation today
- 1630 BH off site

Byrland
3/24/14

Location LPR - RM 10.9

Date 3/25/14

Project / Client USACE - RM 10.9 oversight

Brylinski

1400 BH on site

Weather: 30° F, cloudy

- Waiting for water to come in before fabric can be placed

1500 Began placing panel 4-N

- panel is about 150' feet long

- very little water movement, easy to maintain overlap

1615 Finished installing panel 4-N

* Note: per J.R., GLDD will not work Saturday. They will work in evening high tide up to and including Friday 3/26 then switch over to morning high tide on Sunday 3/30

1700 Observing addition of armor stone on panel

1740 BH off site

Brylinski 3/25/14

Location LPR - RM 10.9

Date 3/26/14

Project / Client USACE - RM 10.9 oversight

Brylinski

1520 - BH on site at Riverside Park

- weather: 35°, severe wind

- GLDD observed on barge waiting for high tide.

1550 - per S. Kosemick, the severe wind is delaying high tide by pushing water out into the bay

1615 - Still waiting for fabric placement to begin

1640 Slack tide

- GLDD began installing panel 3-N

- Sinking bar assembly functioning as designed to keep fabric flat during installation

1800 GLDD finished panel 3-N

Note: Checked monitoring website earlier today, saw that all 5 turb. brays are online and functioning properly

1830 BH off site

Brylinski 3/26/14

Location LPR - RM 10.9 Date 3/27/14Project / Client USACE - RM 10.9 oversightBy Hand

1600 BH on site at Riverside Park

weather: 45° clear

1620 John Rofe informed me that there's a change in the upcoming schedule; GLDD will change from evening high tide to morning high tide starting tomorrow, instead of Sunday

- still no work Saturday
1715 informed S. Budney (via phone) that work will begin at ~0630 tomorrow morning

1720 GLDD begin installing panel Z-N

- overlap ok
- turbidity minimal based on observation

- very little current

1850 - finished panel Z-N

1930 BH off site

By Hand
3/29/14

Location LPR RM 10.9 Date 3/28/14Project / Client Sharon Budney

0625 Sharon Budney (SB) onsite at Lynnhurst Park. GLDD setting up mooring on the barge

0630 operator arrived at the park to check buoys (located South + North of barge - used as anchors)

0648 Barge with armor stone moved into position

0700 Barge max in close to shore - tie of textile fabric to trees

Max personnel back onto barge.

0720 begin placing stone onto geotextile. Some turbidity is seen when they place the stone.

Weather mostly clear, 35°

Short cloud burst at one point then cleared.

0845 Placement of Panel N-1 complete. good overlap with Panel Z-N though we may place another panel during the evening high tide

0900 off site - GLDD preparing for next activity

1640 Stan. duic called - no additional work today. water level low to allow near shore access. SB 3/28/14

Location CPR - RM 10.9 Date 3/30/14
 Project / Client USACE - RM 10.9
Brynd For Meredith Passaro

- 0730 M. Passaro on site at Riverside Park
 - Stan K (dm) on site
 Weather: 46°, rain, showers
- 0745 Stan informed MP that no work was likely to take place today due to high river flow rates in excess of 5000 cfs from previous day's rain.
 - GLDD may place rock in areas where the survey identified needed additional coverage.
- 0820 Received word from Ray (Hill) that no additional work would take place today.
- 0830 MP and Stan off site
- 0930 Received call from Stan that GLDD has decided to try and place rock.
- 1000 MP back on site at Riverside Park
 - spoke with Stan (dm), GLDD laid stone from 0930-1000, now they're preparing to move anchors back up to the northern areas near where ponds 37-38 should have been placed.
- 1030 Spoke with Ray about areas where slope failure occurred. Plans are to try and retrieve the last geotextures

Location CPR - RM 10.9 Date 3/30/14
 Project / Client USACE - RM 10.9 oversight
Brynd For M. Passaro

- 1030 and to fix slope and then place ponds 37-38. Barges/equipment will be moved to that area. He stated crew would be moving anchors into the afternoon and, pending weather and time, would try to lay more stone.
- 1200 GLDD has still not started to reset anchor, water levels are still high and moving very quickly.
 - Ray (Hill) stated he would notify me if anything changed into the afternoon.
- 1220 M. Passaro is off site

Brynd Hill 4/1/14
 for M. Passaro

Location LPR-RM 10.9 Date 3/31/14Project / Client USACE RM 10.9 oversight
Bpr Hnd0930 BH on site at Riverside Park
- weather: 40°, some rain- observed GLDD excavator
applying armor stone up
around very northern edge
of capping area1000 Substantial flow in river,
result of significant rainfall
over the weekend- Heard from Stan last night
(via text) that they will be
doing stone addition and
possibly rock removal from south
of No Dredge Zone today.1015 GLDD using tugs/spud to
move barge around for rock
addition (instead of winches)

1045 - moving from north to south

1200 - Per M. Hoppe (who is on-site)
GLDD will be releasing results of
armor thickness surveys today
or tomorrow.1300 Spoke with Stan, told him
I'd like to be able toLocation LPR-RM 10.9 Date 3/31/14Project / Client USACE RM 10.9 oversight
Bpr Hndobserve coring for active layer
thickness.- He also told me that panel 34-N,
where the slope failure occurred,
was removed from the river this
morning. the stone was removed
also. They will come here too
to verify active layer thickness

1500 BH back to Riverside Park

- went to field office ~1300

- GLDD finishing stone placement
for the day, near fire
dept. boat launch- They will not be able to
perform the rock removal
south of the No-Dredge
Zone today.

1600 BH off site

Bpr Hnd 3/31/14

Location LPR - RM 10.9 Date 4/1/2014
 Project / Client USACE - RM 10.9 oversight
Byrond

- 0900 Heard from John Rolfe while en route to site that today will be spent adding stone to low spots, surveying, and possibly removing stone from south of NDZ.
- Relayed this info to M. Happe. He's decided not to visit today to the site.

- 0930 BH on site at Riverside Park
 weather: 45, clear
- Observed GCDD loading stone onto barge from Scow - no activity with excavator bucket
- 1030 Observed survey boat in capping area.

- Still much higher than average flow at RM 10.9
 BH to lunch

- 1230
- 1300 Heard from J. Rolfe that GCDD will not be able to perform stone removal today; tomorrow instead.

Location LPR - RM 10.9 Date 4/1/14
 Project / Client USACE - RM 10.9 oversight
Byrond

- they will also apply sand and Aqua-Gate as needed, based on results of coring.
- 1320 John called again to specify that they will start rock removal at ~800 and coring will not take place until later in the day
- 1400 BH off site

[Signature]
 4/1/14

Brylher

- 0800 BH on site at Riverside Park
 weather: 45°, cloudy
 - Stopped by Office First, was expecting to be picked up by Roy (CH2M) to go on boat, to observe rock removal and coring
 - this won't happen until 1030
 - now at park observing, GCD as they move barge and prepare for today's work

- 0820 Begin removing corner stone from south of NDZ using Fuchs excavator bucket
 - not using rock sifting fork
 - getting some rock, but not much
 - operator grabbing rock, water, active layer; slightly opening bucket to allow all but stone to fall out.

- 0920 Finished removing stone
 - ~~waiting~~ ^{BH} ~~See~~

- 0940 BH on boat w/ Roy (CH2M)
 PPE - Level D
 - observed GCD collecting two cores: 8.5", 9.1"
 collected by pushing tubing by hand

Brylher

- 1000 GCD begin placing sand/Agoo Gate in area where stone was removed this morning
 - was mixed in barge using bucket
 1100 Finished placing supplemental active layer
 1120 Barge moved downriver to have shroud installed
 - shroud to help with panel installation
 1150 BH off site for lunch
 1245 BH to field office for weekly progress meeting
 - Stan, Roy, Joe in attendance
 - should resume capping tomorrow, still should be done by 5/6/14

- 1350 BH off site to Edison office

Brylher 4/2/14

Location LPR-RM 10.9 Date 4/3/14Project / Client USACE-RM 10.9 oversightBjorklund

0930: Bt on site at Riverside Park
 - weather: 50° clear
 - Head from J. Rolfe this morning that GCDP plan to begin placing parcel O-N around 1130 today

1000: Observed some minor maintenance tasks (reconnecting winch system)

1050: Grace Chen on site for CDM Smith
 - showed Grace the site, explained background, described what to look for re: oversight, introduced her to J. Rolfe.

1120: Received word that there will be no fabric placement today; current still too severe

1200: G.C. off site
 - observed tree trimming near shore
 - They are working on the fabric chute in the red Weeks 327 scow

1330 Asked J.R. if there have been any updates re: the 3q-N area
 - He said no, no cores

Location LPR-RM 10.9 Date 4/3/14Project / Client USACE-RM 10.9 oversightBjorklund

collected yet

- CDM will be told when this is to take place.

1430 GCDP are finished for the day, leaving the barge
 1500 Bt off site

Bjorklund 4/3/14

Location LPR - RM 10.9

Date 4/4/14

Project / Client USACE - RM 10.9

Bgn Hand

0920: BH on site at Riverside Park
 weather: 40° rain

email from Stan - probably no
 panel installation today, not
 for sure though

- observed GLDD performing maintenance
 on barge

1000 GLDD pulled fabric chute out of
 Weeks 327 scow and held
 it up against Poseidon barge -
 checking size?

- Returned it to scow, sent
 scow up river.

1100 Per Stan, a panel today at
 high tide (~1300) is still possible
 - he said another 1-1.5 days of
 welding is required before the
 chute is complete

1200 Observed rock barge pulled up
 next to main barge.

- panel install possible

1300 Received word from Stan
 that there will be no panel
 today.

Location LPR - RM 10.9

Date 4/4/14

Project / Client USACE - RM 10.9 oversight

Bgn Hand

1430 Observed GLDD moving the
 Weeks 327, the CAT barge, and
 a green scow at the northern
 edge of the copping area.

1440 Observed GLDD performing some
 welding on the side of the
 Poseidon barge.

1500 Appears that many of the
 deckhands have left for the
 day.

1530 BH off site

Bgn Hand
 4/4/14

Location LPR - RM 10.9 Date 4/5/14Project / Client USACE - RM 10.9 oversight
Bpr hnd1200 BH on site at Riverside Park
weather: 50°, clear- received word immediately from
J. Rolfe that there will be no
panel placement today. Flow at
10.9 is still too severe.- GLDD will continue manufacturing
fabric chute today.1430 Observed CAT barge moved up
next to main barge1520 Observed deckhands on shore,
putting sandbags on the
orange barricades around the
two CAT 420F backhoes to
keep them in place1610 Observed GLDD leaving the
barge for the day
BH off siteBpr hnd 4/5/14Location LPR - RM 10.9 Date 4/06/14Project / Client Oversight
Shannon Budnary1235 S. Budnary arrived in Riverside Park
at the RM 10.9 site. GLDD is making
preparations to install Panel N-0
Temp 54°F Clear Wind 2 mph
5 Turbidity buoys operating
Stan K. dmi also in the Park. Rafe. CH2M
on the chad w/ GLDD.

1255 Checked flow over Dunderdam - 3090 cfs

1310 Barge close to shore prepared to pull
Geotextile to shore1320 Begin unrolling geotextile N-0
Stan reported they tried the fabric
chute on Saturday but not installed
yet. the Winch system was installed
on the barge which now raises/lowers
the chute bar.Due to nice weather - Number of people
in the Park stopping to observe.

1435 finished unrolling Panel

1440 finished placing rock

1445 GLDD packing up for day

1450 SB + Stan off site.

SB 4/06/14

Location LPR - RM - 10.9 Date 04/07/14
 Project / Client USACE / oversight
Grace Chen

- 1230 Grace on site at River Park
 GLDD is working on the geotextile barge the red week
 Scow was there filled with armor stone John Rolfe from de maxims is also at River Park
 Temp. 47°F. Overcast, windy, cold.
 GLDD put the geotextile on prepare to put the panel in.
- 1315 GLDD pull the barges close to the east bank, but not close enough to start. They measured water depth the crane bucket swept in water maybe smooth out the armor stone
 GLDD also check the flow rate
 Roy (CH2M Hill) called John and said the water level was too low for the barges to come closer to the bank for putting down panel.
 GLDD pull back to middle of River
- 1415 Roy (CH2M Hill) told John they will not be able to lay down a panel.
 GLDD will work on the shroud.
- 1420 Grace off site. Grace Chen

Location LPR - RM 10.9 Date 4/8/14
 Project / Client USACE - RM 10.9 oversight
Bgm

- ~~1230~~ - BH on site for OSM Smith (River side Park)
 1430 weather ~ 55°, cloudy
 - observed new fabric shroud on Poseidon barge - same^{BH}
 - basically the setup is same as before (sinking bar assembly) but the vertical portion of the fabric (extending from the barge down to the rolling bar) is housed in a metal shroud that prevents the current from interfering.
- 1440 - still waiting for tide to come in to start
- 1500 - GLDD began panel 00-N
- 1530 - Per J. Rolfe (dm), GLDD will transition from evening to morning work on Thursday.
 - They also need to remove a few more rocks from south of the NDZ - will do on Thurs. probably.
- 1540 - note that fabric shroud is raised/lowered with winch

Location LPR - RM 10.9 Date 4/9/14
 Project / Client USACE - RM 10.9 oversight
Byn lhrd

System rather than with the
 excavator bucket - big improvement
 from previous approach.

1620 GLDD finished panel 00-N
 - penultimate panel north of
 NDZ

1650 GLDD preparing for tomorrow's
 work

1730 BH at site

Byn lhrd

Location LPR - RM 10.9 Date 4/9/14
 Project / Client USACE - RM 10.9 oversight
Byn lhrd

1430: BH on site at Riverside Park

Weather: some clouds, 55° F

- no capping activity yet, observed
 GLDD performing maintenance and
 positioning barge

1530: Informed by Ray (CH2M) that
 GLDD performed manual removal
 of armor stone from near
 shore south of NDZ

- no mechanical equipment
 - He watched them collect cores
 - 10", 12" of active layer
 - He will send photos to Stan for
 distribution.

- I thought this was happening
 tomorrow... need notice from dm;

1630: GLDD began panel 000-N
 - last panel north of NDZ
 - fairly slow; still getting
 used to new shroud.
 - Armor stone placed across
 all (total width) of panel
 - minimal turbidity, dissipates
 within ~200 feet.

Location LPR - RM 10.9 Date 4/9/14Project / Client USACE - RM 10.9 oversightBryn Ardd

1700: Stan (dmi) stated that he will have GLDD collect more cores with CDM oversight if desired by EPA.
 - He has been speaking with CH2M telling them that they/GLDD need to provide notice before performing activities requiring oversight.

1815: Finished panel 000-N
 - done north of NDZ, mines panels 37-N/38-N/39-N

1900: BH off site

Bryn Ardd
4/9/14

Location

LPR - RM 10.9

Date

4/10/14

Project / Client

USACE - RM 10.9Bryn Ardd

1500: BH on site A Riverside Park

- weather: sunny, 60°
- observed GLDD waiting for tide to come in

notes: - heard from EPA last night that they will not require additional coring in area south of NDZ

- schedule change: will go over to morning high tide starting tomorrow (Friday)

1600: GLDD started panel 31-S
 - first one south of NDZ
 - Type B stone used in high-subgrade areas
 - GLDD tossing the armor stone removed yesterday onto the panel (reuse)

- They moved the backhoe anchors south earlier today

1720 Finished panel 31-S

1745 BH off site

Bryn Ardd
4/10/14

Project / Client USACE - RM 10.9 oversightByrland

0545 BH on site at Riverside Park

- Weather: 50°

- S. Koenig also here

0600 GLDD begin panel 30-S

- Type B stone over first
couple of passes

- Using light on barge

0630 Sun starting to come up - good
overlap observed w/ 31-S0640 Stan asked me if I knew
of any EPA plans to have
CPG dredge/cap the No
Dredge Zone- I said not really, though I was
asked a couple months back about a
geophysical survey in that area
- He said ~~that~~^{BH} that the area is
not part of their scope

0720 Finished panel 30-S

- observed now moving barges

0800 BH off site

ByrlandProject / Client USACE - RM 10.9 oversightByrland0615 BH on site ~~for~~^{BH} at Riverside Park

Weather: 50°

0645 GLDD begin panel 29-S

- Stan K. on site

- ~3' overlap observed w/
panel 30-S

0700 Finished panel 29-S

- moving barges, will attempt
Second panel- panels are getting slightly
shorter row

0830 Begin panel 28-S

- Leaving more space without
rock on the southern part
of the panel because the next
one needs to be angled, so it
will overlap more.

0930 Nearly out of armor stone

0945 Finished 28-S; loads short,
as though they ended it because
they were out of stone - told
by Stan that it is the right
length

1015 BH off site

Byrland 4/12/14

Built for Meredith Passaro

0645 M. Passaro on site at Riverside Park

- Stan (dm.) on site also.

0650 GLDD beginning to lay panel S-27.

- currently anchoring panel to shoreline

- good armor stone covering observed

- panel laying flat - new apparatus seems to really help with this.

- panel is 100-120' length.

0800 Panel S-27 is completed. GLDD resetting for next panel (S-26).

0825 GLDD is beginning to lay panel S-26

- approx. 8-10' of overlap observed

- more overlap needed in areas around river bend, where panels are being angled.

- panel is laying flat; no bunching.

- panel ~100-120' long

0900 weather today: cloudy, 58°F
wind 6.0 mph from SSE.

0935 Panel S-26 completed,

- spoke w/ Roy (CH2M), S-26 is the last panel for today.

0946 Received confirmation from Roy and Stan that work

Built for Meredith Passaro

is completed for the day. GLDD will be moving some of the anchors around and will be offsite by noon. Start time tomorrow is

0645

1000 M. Passaro and Stan both offsite.

Built 4/14/14
for M. Passaro

Location CPR - RM 10.9 Date 4/14/14Project / Client USAG - RM 10.9 oversightBp Hnd

0700 BH on site at Riverside Park

weather: 60°F, clear

0715 GLDD begin installing panel 25-S

0815 Finished installing panel 25-S

0845 GLDD moving to position for next panel - performing some tree trimming

0900 begin panel 24-S

0910 Placed rod upright on panel before armoring, shot with GPS, will use to check for settlement

1000 Finished 24-S

-observed some minor maintenance

1045 GLDD begin panel 23-S

-good overlap observed w/
panel 24-S

1145 Nearly finished, but ran out of stone

1200 -loading stone from scan

1310 Resumed 23-S installation

1330 Finished 23-S

1400 Moving berge to prepare for tomorrow

1430 BH off site

Bp Hnd 4/14/14

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Error codes are used to explain common mistakes and are written above or close to the mistake.

Commonly used error codes include:

- RE Recording Error
- CE Calculation Error
- TE Transcription Error
- SE Spelling Error
- CL Changed for Clarity
- DC Original Sample Description
- Changed After Further Evaluation
- WO Write Over
- NI Not Initialed and Dated at Time of Entry
- OB Not Recorded at the Time of Initial Observation

Note: Error code should be circled, dated, and initialed when recorded.

Hazard Classifications

- Class 1 Explosives
- Class 2 Gas
- Class 3 Flammable Liquid
- Class 4 Flammable Solids (Potential spontaneous combustion, or emission of flammable gases when in contact with water)
- Class 5 Oxidizing Substances and Organic Peroxides
- Class 6 Toxic (poisonous) and infectious substances
- Class 7 Radioactive material
- Class 8 Corrosives
- Class 9 Miscellaneous dangerous goods

Container type abbreviations (for sampling guidelines)

- BR - Boston Round • ABR - Amber Boston Round • AJ - Amber Jug • AWM - Amber Wide Mouth • Poly - Polyethylene Bottles • BOD - Bottle • CWM - Clear Wide Mouth

Location LPR-RM10.9 Date 4/15/14
 Project / Client USACE-RM10.9 oversight
Bryn Hurd

- 0800 BH on site at Riverside Park
 weather: 640, cloudy
 - GCDD waiting for water to come in
 before they can begin panel
 placement
- 0910 GCDD begin panel 22-S
 - some turbidity, does not
 exceed limits (checked website)
- 1010 Finished panel 22-S
- 1030 Starting to rain
- 1050 Begin panel 21-S
- 1155 Finished installing panel 21-S
- 1210 Per John, GCDD will be
 fixing one of the winch
 connections, loading armor stone
 and moving barges for the rest
 of the afternoon
- 1230 Still raining - deferred GCDD
 setting up for tomorrow's work
- 1300 BH OFF site

Bryn Hurd 4/15/14

Location LPR-RM10.9 Date 4/16/14
 Project / Client USACE-RM10.9 oversight
Bryn Hurd

- 0830 BH on site at Riverside Park
 weather: 73°F, clear
- 0945 GCDD begin panel 20-S,
 had to wait for tide to come in
 - Type B stone used near shore
 - good overlap w/ 21-S
- 1045 Finished 20-S
 - setting up for next panel
- 1120 Not yet started - per
 BH ~~John~~ Stan there is a rock
 trapped in the fabric chute that
 they must remove.
- 1135 Begin panel 19-S
 - moving very quickly, and panels
 are getting shorter.
- 1235 Finished panel 19-S
 - will try for a 3rd panel
 but tide may have gone out
 too far to position barge near
 shore to begin panel
- 1305 GCDD begin panel 18-S
 - had to pull fabric out
 ~30-40 feet because they
 couldn't get very close to shore.

Location LPR-RM 10.9 Date 4/16/14
 Project / Client USACE-RM 10.9 oversight
Bryn Lund

- 1305 No trouble reaching edge of panel to place armor stone though
 1410 GLDD finish panel 18-S
 1415 Stan called Ray, confirmed that this is the last panel for today
 1430 Observing GLDD moving barges for tomorrow's activities
 1500 BH off site

Bryn Lund 4/16/14

Location LPR-RM 10.9 Date 4/17/14
 Project / Client USACE-RM 10.9 oversight
Bryn Lund

- 0845 BH on site at Riverside Park
 0920 GLDD begin installing panel 17-S
 - 4-5' overlap observed w/ panel 18-S
 - some turbidity, not much
 1015 Finish panel 17-S
 1045 observed GLDD moving the two backhoes (winch anchors) and loading stone for the next panel
 1115 Begin panel 16-S
 1215 Finish panel 16-S
 note: lots of type B stone used, and NA only near the shore. Much of the area under this panel is "high-subgrade".
 1240 Begin panel 15-S
 1320 End panel 15-S
 1400 Begin panel 14-S
 1445 End panel 14-S
 1530 BH off site

Bryn Lund 4/17/14

Location LPR-RM 10.9 Date 4/18/14
 Project / Client USACE-RM 10.9 oversight
Bjorn Lund

- 0830 BH on site at Riverside Park
 - weather: 40° clear
- 0840 Asked John Rofe about habitat layer placement
 - he said they'll be using the telebelt again
 - Doesn't expect any delays getting the telebelt on site and starting sand placement; primary concern is getting needed approvals from EPA/CDM regarding armor stone survey.
- 0915 On boat w/ Ray (CDM) to witness collection of active layer cores from 37-N, 38-N, 39-N.
 PPE: Level D
 - M. Hippo (EPA) and J. Rofe watching from shore.
- 0926 Collected core from 38-N area
 - observed ~11 inches of active layer
- 0935 Having trouble getting another core: water is too deep
- 0945 Postponed rest of cores

Location LPR-RM 10.9 Date 4/19/14
 Project / Client USACE-RM 10.9 oversight
Bjorn Lund

- 0945 (37-N, 39-N) until Monday morning at ~~high~~^{1st} low tide.
- 0950 BH back on shore, en route to observe panel placement
- 1000 Panel 13-S started already, at ~0950
- 1030 GCD finished panel 13-S
- 1055 GCD began panel 12-S
 - working efficiently; could do a 3rd panel today, but they will stop after this one.
 - sufficient overlap observed with panel 13-S.
- 1130 Finished panel 12-S
- 1145 GCD observed cleaning up. Finished for today, no work this weekend.
- 1215 BH off site

Bjorn Lund 4/19/14

Location CPR - RM 10.9 Date 4/21/14Project / Client USACE - RM 10.9 oversight
Byn / hmd

- 0820 BH on site at Riverside Park
Weather: 45° sunny
- 0835 BH on boat w/ Ray (CH2M) to observe core collection
- continuation of activity that was started on Friday.
- 0849 GCDD collected core from 37-N area; ~9 inches active layer
- tough to identify interface between native sediment and active layer but there are still visible sand grains at 9 inches
- 0854 GCDD collected core from 39-N
- 10 inches of active layer
- 0910 off boat - asked J. Rafe about telebelt again
- He said GCDD own the telebelt and it is sitting in their yard in Staten Island
- CH2M have instructed them to set it up on a barge, for deployment early next week
- 1000 Waiting for high tide, for GCDD to continue panel installation.

Location CPR - RM 10.9 Date 4/21/14Project / Client USACE - RM 10.9 oversight
Byn / hmd

- 1215 Per Ray (CH2M), they will move in to begin panel 11-S
- 1230 GCDD begin panel 11-S
- Type B stone used
- 1325 Finished panel 11-S
- 1340 According to John they have a new operator today.
- 1400 performing some pretty aggressive tree-trimming to remove branches hanging out over the water.
- 1425 started panel 10-S
- 1435 Per John, GCDD have proposed bringing a track-mounted mini excavator on site to drive onto the armor stone at low tide and level out high spots.
- Have not had this approved by CH2M AM.
- 1450 T. Briggs (GCDD) told John that he went to check on the telebelt today, they have started getting it ready at the facility in Staten Island.

14 Location LPR - RM 10.9 Date 4/21/14
 Project / Client USACE - RM 10.9 oversight
Bryn Ihred

C 1515 GLDD finished installing panel 10-S
 C 1600 GLDD started panel 9-S
 - some turbidity, mostly localized
 - good overlap with 10-S
 1700 GLDD finished panel 9-S.
 C 1720 BH off site

Bryn Ihred
4/21/14

15 Location LPR - RM 10.9 Date 4/22/14
 Project / Client USACE - RM 10.9 oversight
Bryn Ihred

1230 BH on site for CDM @ Riverside Park
 weather: 65°, sunny
 1235 GLDD started panel 8-S
 - good overlap (~5') with panel 9-S
 1315 Stan says that GLDD will deploy the mini excavator to level out corner stone near the shore starting tomorrow at low tide (1000 or so).
 1320 finished panel 8-S
 1400 started panel 7-S
 1445 finished panel 7-S
 1540 started panel 6-S
 - GLDD placed sediment plate to check for settlement later
 1625 finished panel 6-S
 1700 started panel 5-S
 1750 finished panel 5-S
 1810 BH off site

Bryn Ihred
4/22/14

16 Location LPR - RM10.9 Date 4/23/14
Project / Client USACE - RM10.9 oversight
Bpm Hurd

- 0830 BH on site at Riverbank Park
Weather: 50° cloudy
- have to see mini excavator working on leveling stone
- has not started yet
- 0930 - waiting for low tide
- 1040 GLDD begin using CAT40ZE to level out corner stone
- moving high spots to low spots
- no damage to fabric observed
- note: Rachel (dm) first day here today, will be taking over from Stan (helping John out)
- 1150 Done with mini excavator for now
- 1245 BH to field office for weekly meeting
- 1300 notes from meeting
- Stan, John, Mike (CH2M), Be (CH2M), Ray (CH2M) in attendance
- panels 81% done, by total area, as of end of last week
- Frank (CDM) expressed concern that CAT40ZE min. excavator could cause compaction of

17 Location LPR - RM10.9 Date 4/23/14
Project / Client USACE - RM10.9 oversight
Bpm Hurd

- active layer
- dm/ GLDD reported that pressure from machine is comparable to water at high tide.
- Habitat layer placement to begin next week; they will place over a small area and dm/ EPA/ CDM will inspect and approve before they continue.
- Habitat layer meant mostly to cover stone and fill voids, not to provide additional thickness
- 1400 Back at park
- GLDD begin panel 4-S
- 1450 GLDD finish panel 4-S
- 1545 - GLDD begin panel 3-S
- 1630 - GLDD finish panel 3-S
- 1700 GLDD begin panel 2-S
- 1710 Delay; southwest anchor pulled at, needs to be reset
- 1745 Resumed
- 1800 BH off site
- 1820 Finished panel 2-S, per R. Modabbernia (dm)
- Bpm Hurd 4/23/14

18 Location LPR - RM 10.9 Date 4/24/14
Project / Client USACE RM 10.9 oversight
Bjornlund

- 0830 BH on site at Riverside Park
Weather: 60°F, Sunny
- no activity observed yet with
CAT 402E mini excavator
- 0930 Begin leveling armor stone
near shore with mini excavator
- knocking down high spots
- ~~BH~~ working north of NDZ
- 1040 moving to south of NDZ
- 1325 Finished for now
- 1350 Returned to areas near shore
- 1430 GLDD begin panel 1-S
- tapered (not a rectangular panel)
to match shape of capping area's
southern boundary.
- armor stone placed on entire
width of panel
- 1530 GLDD finished panel 1-S
*note: Finished leveling out stone with
CAT 402E around 1440.
- 1600 BH off site

Bjornlund
4/24/14

19 Location LPR - RM 10.9 Date 4/25/14
Project / Client USACE - RM 10.9 oversight
Bjornlund

- 1000 BH on site at Riverside Park
Weather: ~55°F clear
- 1045 Operator began leveling out
exposed armor stone with CAT 402E
mini excavator
- Observed CAT 420F backhoes Staged
near community center parking lot,
meaning that GLDD are done with
the winch system for now
- 1115 GLDD putting down extra
bucket loads of sand and
AguaGate on panel 39-N
area
- 1130 BH on boat with Ray (CH2M)
PPE level D
- 1138 GLDD collected core from 39-N
- observed 11.5 inches of
active layer
- 1150 Back on shore
- 1300 Finished leveling out armor
stone for the day.
- 1330 GLDD began installing
panel 39-N
- Edge of panel placed high up

Location LPR-RM 10.9 Date 4/25/14Project / Client USACE-RM 10.9 OversightBjorklund

- 1330 on existing rip rap
- heavily armored at top of slope to prevent another failure
- 1405 GLDD finished panel 39-N
- 1430 GLDD decided (per John) that the tides are not cooperating and they're going to have to complete panels 38-N and 37-N tomorrow morning.

1500 BH off site

Bjorklund
4/25/14

Location LPR-RM 10.9 Date 4/26/14Project / Client USACE-RM 10.9 OversightBjorklund

- 0800 BH on site at Riverside Park
Leathers - 60° Sunny
- R. Moddaluna on site for dm;
- no work observed yet, barge is positioned near no dredge zone
- 0900 Per Ray there is an electrical problem with the excavator that they're working on.
- 0930 Need to fuel up excavator
- 1020 Per Ray, work (panel placement) is still planned for today. Could be waiting for low tide?
- 1130 Observed mini excavator out on armor stone, leveling stone.
- 1200 Moved Poseidon barge into position
- 1230 GLDD break for lunch
- waiting for current to slow down
- mini excavator work ongoing
- 1315 GLDD begin panel 38-N
- edge not placed as high up on the bank as 39-N
- 1340 Finished panel 38-N

Location LPR - RM 10.9 Date 4/26/14Project / Client U3AE - RM 10.9 oversightBjn And

1410 Using tug/spuds (no winch)
to move barge to 37-N location.

1430 Start parcel 37-N

- placed between existing 36-N and 38-N
- observed ~20" overlap over parcel 36-N

- placed corner stone on 37-N only to the edge of 36-N, not on top of 36-N

1445 Finished parcel 37-N.

1500 Per Roy, they will finish rocking this parcel and that's it for today. will apply rock to low spots tomorrow.

1515 BH off site

Bjn And 4/26/14

Location _____ Date _____

Project / Client _____

~~0930 Received word from John BH that~~

Location UPR - RM 10.9 Date 4/23/14
 Project / Client USACE - RM 10.9 oversight
Brynn Lund

0930 Received word from John that the alternating belt on the excavator is broken and needs repair; will delay the start of work this morning

1000 BH on site
 weather: ~ 50° clear

1100 Waiting for work to begin
 1235 excavator is fixed
 - GDDD move barge to northern edge of capping area.

1245 Begin placing additional armor stone on low spots

1330 BH off site
 - will receive update and end-time from JR this afternoon

Brynn Lund
 4/23/14

Location UPR - RM 10.9 Date 4/29/14
 Project / Client USACE - RM 10.9 oversight
Brynn Lund

0930 BH on site

- weather: 50° cloudy
 - observed GDDD placing additional armor stone at various locations north of No dredge Zone.

1030: Talked to John Relfe
 - GDDD hope to have survey done by T/W (north of NDZ), initial sand placement on Th.

- could be delayed by rain
 - Fuchs excavator is needed for stone placement and sand placement, so you can't do both simultaneously.

1300 BH off site

Brynn Lund
 4/29/14

Location GPR - RM10.9 Date 4/30/14
 Project / Client USACE - RM10.9 Oversight
Bpr Hand

0930 BH on site at Riverside Park
 weather: 50°, light rain
 - observed GDD applying armor
 stone to low spots south of
 the NDZ

1045 BH to CPG facility

1100 Spoke with John Rife and
 Stan Koczumek

- Hoping to receive Area 1
 (north of NDZ) survey today
- aiming to begin habitat layer
 placement on Friday

1215 BH off site (returned to
 Riverside Park briefly)

- will take weekly progress
 call from Edison
 office

Bpr Hand
4/30/14

Location GPR - RM10.9 Date 5/1/14
 Project / Client USACE - RM10.9 Oversight
Bpr Hand

0945 BH on site at Riverside Park

- weather: 60° some rain
- GDD applying armor stone
 south of NDZ

1100 Per R. Moddaluna (dm), they're
 done adding stone south of
 the NDZ, pending survey
 results

- they also went north of
 the NDZ this morning to
 knock down some high spots
 that were noted during the
 survey.

1200 GDD will spend afternoon
 moving equipment, surveying

1230 BH off site

Bpr Hand
5/1/14

Location CPR - RM10.9 Date 5/2/14Project / Client USACE - RM10.9 oversightBjrhnd

- 1500 BH on site Per CDM Smith at Riverside Park
- weather: 65° cloudy
 - observed GCDD just finishing work for today
 - consisted of resurvey of entire capping area, also applied some stone south of NDZ, according to J. Rolfe
- 1530 GCDD cleaning up for today
- 1600 observed telebelt stationed at southern edge of capping area
- appears ready for use
- 1700 BH off site

Bjrhnd
5/2/14

Location CPR - RM10.9 Date 5/3/14Project / Client USACE - RM10.9 oversightBjrhnd

- 0830 BH on site at Riverside Park
- weather 50° Sunny
 - spoke to John Rolfe
 - GCDD will be applying armor stone south of NDZ and completing the survey
 - Hope to have survey results to EPA by Monday
 - Per T. Briggs (GCDD) the parts for the Jackson St. Bridge repair are coming in today, will require ~ a week to fix
- 1000 Still observing GCDD south of the NDZ, applying armor stone
- 1115 Done placing stone for today
- will continue surveying this afternoon
- 1200 BH off site

Bjrhnd
5/3/14

Location LPR-RM10.9 Date 5/8/14Project / Client USACE-RM10.9 oversight
Bjrh

- 0930 BH on site at Riverside Park
weather: rain, 50°F
- 0937 GLDD begin spreading sand,
starting at southern end of
capping area.
- John Ralfe and Rachel Madalena
on site for dmi.
- 1040 Paused
- note: habitat layer deployed
using telebelt, same device
used during active layer
implementation.
- sand placed in radial passes,
starting far away from
barge and moving inward.
- 1100 Resumed work in same area
- 1200 Finished area
- 1215 Resumed to place second
lift of sand over area
near shore so that we
can compare 1 lift vs. 2 lifts
tomorrow.
- 1250 Finished 2nd lift area.
- 1315 Covering southwest corner of

Location LPR-RM10.9 Date 5/8/14Project / Client USACE-RM10.9 oversight
Bjrh

- 1315 capping area with ^{BH 1st} ~~second~~ lift.
- 1335 Finished southwest corner.
- CDM, EPA, dmi will observe
today's work area tomorrow at
low tide (once the high tide
has washed over it once) and
decide if 1 lift is enough
or if 2 are required.
- 1340 GLDD moving barge up river
- done spreading sand for
today
- 1420 BH ~~off~~ site

Bjrh
5/8/14

Location LPR - RM 10.9 Date 5/9/14Project / Client USACE - RM 10.9 oversightBpn Hnd

- 0830 Bft on site at Riverside Park
 weather: 55° cloudy
 - GIDD already started applying habitat layer, slightly north of yesterday's work area
- 0900 Observed yesterday's work area near shore
 - relatively good coverage of armor stone in area where 2 lifts of sand were applied.
 - In 1-lift areas, lots of stone still showing. Entire pieces of type A stone sitting atop sand
- 1000 Roy (CH2M) and Tim Briggs (GIDD) visit park to observe yesterday's work area, point out which areas had 2 lifts.
- 1015 Sent e-mail to M. Hoppe (EPA) documenting observations and recommending that 2 lifts be applied over the entire area to create a suitable

Location LPR - RM 10.9 Date 5/9/14Project / Client USACE - RM 10.9 oversightBpn Hnd

Habitat layer.

- 1115 GIDD are completing first 1-ft near opening in tree line between gazebo and pump house.
- 1300 Spoke with M. Hoppe over phone
 - He agreed that, based on photos, 2 lifts are necessary.
 - He sent an email to dm with this information.
- 1345 GIDD started the 2nd lift over the area completed this morning.
- 1500 "Chubby" saw empty, moved down river
 - "Stymie" moved into position
 - continued sand placement.
- 1620 GIDD finished work for today
 - did not notice GIDD driving smaller boat at fast speed at all throughout the day.
- 1630 John Rolfe received word that Essex County will be opening Jackson St. Bridge on Monday morning.

Location LPR - RM 10.9 Date 5/9/14Project / Client USACE - RM 10.9 oversightBryn Lund

1630 It's unclear if/how the bridge was repaired

1700 BH off site

Bryn Lund
5/9/14Location LPR - RM 10.9 Date 5/12/14Project / Client USACE - RM 10.9 oversightBryn Lund

0930 BH on site at Riverside Park

weather: 70° clear

- Per John Rafe, CH2M are still diagnosing the problem with the excavator

1000 Noted that crew is performing maintenance on the barge

- back of excavator is open

1100 Waiting for update from John - no visible progress

1300 Observed work area from Friday where 2 lifts were placed

- good coverage of armor stone observed

1430 Called John - still no update from GCDD or CH2M, have not been able to diagnose problem, may be serious

1600 John says excavator (Fuchs) needs to be taken off site - will either be repaired or replaced w/ rental - work to resume May 15th

1615 BH off site

Bryn Lund
5/12/14

Location LPR - RM 10.9 Date 5/21/14Project / Client USACE - RM 10.9 OversightKP a pr

8:30 Katie Puckett (KP) on site.
 Weather - cloudy, warm, ~70°F
 Crew on barge hooking up bucket to new excavator - no sand placement yet.

9:15 Met John Rolfe (de maximis), who told me that the crew expects to begin work around 10:00 today.

9:30 John Rolfe received phone call from Roy (CH2M HILL), who indicated that they were missing an O-ring on part of the equipment and would need to get a replacement, delaying start of work.

10:00 Mike (EPA) on site - inspected visible habitat layer placement over armor stone and gave verbal approval.

10:30 Tele-belt brought to barge to prepare for sand placement.

10:45 Mike (EPA) off site.

11:10 Sand ^{SCOW} hopper positioned next to

Location LPR - RM 10.9 Date 5/21/14Project / Client USACE - RM 10.9 OversightKP a pr

11:10 barge, excavator unloading sand from ^{SCOW} hopper.
 Telebelt being moved into position.

11:40 Sand placement begins - took several photos.

12:50 ~~Began second pass of area.~~ ^{KP 5/21/14}
 Sand placement ongoing - second pass in area where work stopped due to excavator failure one week ago.

13:00 Weekly status update call held. CH2M HILL plans to complete the current work area this afternoon and then complete a demonstration layer along the shore using only 1 pass at a slower speed. EPA / CDM Smith will inspect the demonstration layer during low tide, tomorrow morning between 8 and 9 AM.

13:45 Barge moving south to complete ~~single-pass second pass~~ demonstration layer. ^{KP 5/21/14}

Location LPR - RM 10.9 Date 5/21/14Project / Client USACE - RM 10.9 OversightKP & Ray

- 14:00 Placement of habitat layer
Sand began near shore,
South of previous area, ~~for~~
~~single pass demonstration~~. ^{KP} 5/21/14
This is the second pass in this
area.
- 14:30 John Rolfe indicated that he
spoke to Ray (CHAM HILL) and
single-pass demonstration will
be completed later this
afternoon, if at all. Crew is
still deciding whether to
complete the demonstration layer
or continue with two passes.
- 15:15 Rotated sand barge to allow
excavator access to
remainder of sand.
Crew member appears to be
making some adjustments
to end of Tele-belt.
- 15:30 Crew appears to be taking a
break - no work in progress.
- 15:50 Tele-belt resumes operation -
per phone call from Ray to

Location LPR - RM 10.9 Date 5/21/14Project / Client USACE - RM 10.9 OversightKP & Ray

- John Rolfe, had been experiencing
GPS issues. Ray also indicated that the
single-pass demonstration will not
be performed today.
- 15:55 Sand placement resumes.
- 17:20 Barge moving north
- 17:30 Sand placement resumes
north of previous area
- 18:15 Finished placing sand for today.
Excavator still unloading sand
from barge & placing in hopper
for tomorrow's work.
- 18:25 KP off site.

KP
5/21/14

Location LPR - RM 10.9 Date 5/22/14Project / Client USACE - RM 10.9 oversightYK & PR

9:15 KP on site. Sand placement has not resumed yet - crew still preparing equipment for today. Weather - overcast, ~65°F

9:30 Met Rachel Maddaluna (de maximis)

9:40 Resumed habitat layer sand placement - finishing second pass in area where work stopped yesterday. Rachel spoke to Ray (CH2M Hill), who indicated that they plan to empty sand that is in the hopper for now while they wait for the tide to come up so that they can barge in more sand.

10:00 Sand placement stopped. Excavator placing water in empty sand scow.

10:20 Per Rachel, Ray indicated that they ran out of sand and cannot continue work until tide comes in enough to move

Location LPR - RM 10.9 Date 5/22/14Project / Client USACE - RM 10.9 oversightYK & PR

Sand scows. Hope to resume work by 14:00.

12:40 New sand scow moved into position, ready to resume work (tide came in faster than expected)

12:45 Sand placement resumed - still completing second pass of area where work stopped yesterday.

Excavator offloading sand from new scow.

12:55 Barge rotated slightly clockwise.

13:02 Sand placement resumed.

13:10 Barge moving north

13:15 Sand placement resumed north of previous area, still south of where work began yesterday.

14:00 Barged moved north, past area where work began yesterday.

14:08 Resumed sand placement - first pass in this area.

Location LPR - RM 10.9 Date 5/22/14Project / Client USACE - RM 10.9 oversightYk a Th

- 17:00 Barge has moved north - placing first pass of sand in this area.
- 17:45 Rachel spoke to Roy, who indicated that crew plans to begin work at 6AM tomorrow. Rachel also asked about why they put water in the empty sand scow earlier today - this was done to clean out excess sand from the scow.
- 18:20 Completed placing sand for today, packing up equipment. Some distant thunder.
- 18:25 KP off site.

KP
5/22/14

Location LPR - RM 10.9 Date 5/23/14Project / Client USACE - RM 10.9 oversightGrace Chen

- 8:00 Grace on site, met John Rolfe (de maximis)
GLDD has not started; fixing the bucket
- 8:40 GLDD starts spreading sand
saw the bucket of the excavator got some rocks. GLDD personnel went up the hopper to throw the rocks out of the hopper
- 9:20 Work stopped. Roy called John and said that the hydraulic cylinder on the bucket of the excavator has issues need to be fix.
- about 11:00 Roy told John that they are bringing the hydraulic cylinder back to the shop to be fix and will get it back between 1230 to 2:00 pm.
- 13:45 GLDD restarted the tele belt, tested the repaired excavator bucket.
- 14:15 Starts to place sand

Location LPR - RM 10.9 Date 5/23/14Project / Client USACE - RM 10.9 Oversight
Grace ChenAround
17:00

GLDD reposition the barge closer to the bank (its high tide), started to place sand.

17:40

GLDD shutting down for the day
Grace leaving siteGrace Chen
5/23/14Location LPR - RM 10.9 Date 5/24/14Project / Client USACE - RM 10.9 Oversight
Andy Pinares

0730: GLDD resumes habitat layer placement south of No Dredge Zone. Sand is placed in 2 lifts to sufficiently cover armor stone.

0830: GLDD halts habitat layer placement due to crack in excavator bucket. GLDD repairs via welding.

0930: Habitat layer placement resumes.

1230: GLDD finished habitat layer placement in the area south of the No Dredge Zone. GLDD breaks for lunch and will reposition north of the No Dredge Zone after lunch.

1400: GLDD repositions barges to immediately north of the No Dredge Zone. Resumes habitat placement.

1430: Two Riverkeeper tours observed passing by work zone.

1600: GLDD continues placement of habitat layer north of No Dredge Zone, placing two lifts of sand. GLDD will continue placement until approx 1730 tonight.

1645: Arrives off site. Relinquish field back to Grace Chen.

Andy Pinares
5/24/14

46 Location LPR - RM 10.9 Date 5/25/2014
Project / Client USACE - RM 10.9 Oversight
Grace Chen

Between 7:30 - 8:00 GLDD began placing sand in accordance with John.

9:10 Grace on site met John. GLDD is placing sand. They temporary stopped to replace the battery for GPS on Telebelt. the resume sand placement

12:00 A kayak approached the work zone from the south. Roy approached he and asked him to stay away from the working area, ~~also~~ lead the kayak pass the navigation side of the barges.

13:00 GLDD reposition the barge, using the GPS on telebelt to find how to position the barge for coverage. the tide was too low to get close enough to the shore, will come back next Tuesday to place sand close to the shore

13:24 Started placing sand

14:00 stopped for the day. Grace left site
Grace
5/25/14

47 Location LPR RM 10.9 Date 5/27/14
Project / Client USACE - RM 10.9 Oversight
Bjorklund

0830 BH on site for CDM S&B

weather: 70° some clouds

Habitat layer placement ongoing north of the NDZ

1000 progress has been stop-start

1115 M. Hoppe (EPA) on site

1130-1150 GLDD moving equipment north

1200 continue placement

- visible turbidity from sand placement today.

1330 started back up after a break.

1430 Red weeks 84 scow ~~full~~ empty

1440 per Roy, they will move in the Styrimic scow and get some sand out of it.

1630 Done for today

- Rachel talked to John, said they're only placing sand to the dredge line

1700 BH off site

Bjorklund 5/27/14

48 Location LPR - RM 10.9 Date 5/28/14
Project / Client USACE - RM 10.9 oversight
Bp had

0815 Bt on site for CDM Smith
Weather: 60° cloudy
- Habitat layer placement ongoing north of NDE.
- few delays
- expect to finish tomorrow
- some turbidity observed near sand placement location.

1200 Bt to lunch

1300 Weekly call
- M. Happe to visit site tomorrow to inspect & sand layer and verify that it is sufficient.

1400 Habitat layer ongoing
- no issues noted
- working from 'Chubby' scan

1500 Delay
- a spud cable broke

1630 Resume

1730 Finished for today

1800 Bt off site

Bp had 5/28/14

Location LPR - RM 10.9 Date 5/29/14 49
Project / Client USACE - RM 10.9 oversight
Bp had

0500 Bt on site for CDM Smith

Weather: 55° cloudy
GLDD already started habitat layer placement - at 0730
- working toward northern edge of capping area.

1030 Finished capping area
- moving to FD boat launch to place leftover sand

1105 Began placing additional sand at boat launch to cover exposed stone.

1130 Finished sand placement, moved barge/sca to southern edge of RM 10.9 area.

1200 GLDD personnel are in park performing closeout tasks
- observed them removing pieces of yellow rope from trees
- applied grass seed at various locations, including near FD boat launch.
- anchored exposed fabric with rocks to keep fabric

Location COR - RM10.9 Date 5/29/14Project / Client USACE - RM10.9 oversightBp/Hrd

From Flapping or Folding over

1530 M. Hoppe (EPA) on site for final inspection

- R. Weller (CH2M), J. Rafe and R. Modolena (dms) also present
- walked out to habitat layer from south to north, took photos
- observed some rocks sticking out over sand, but this is to be expected and they may be covered by sedimentation.
- M. Hoppe gave permission for CH2M/GCDs to demolish.

1700 BH CR site

Bp/Hrd
5/29/14

Location _____ Date _____

Project / Client _____

